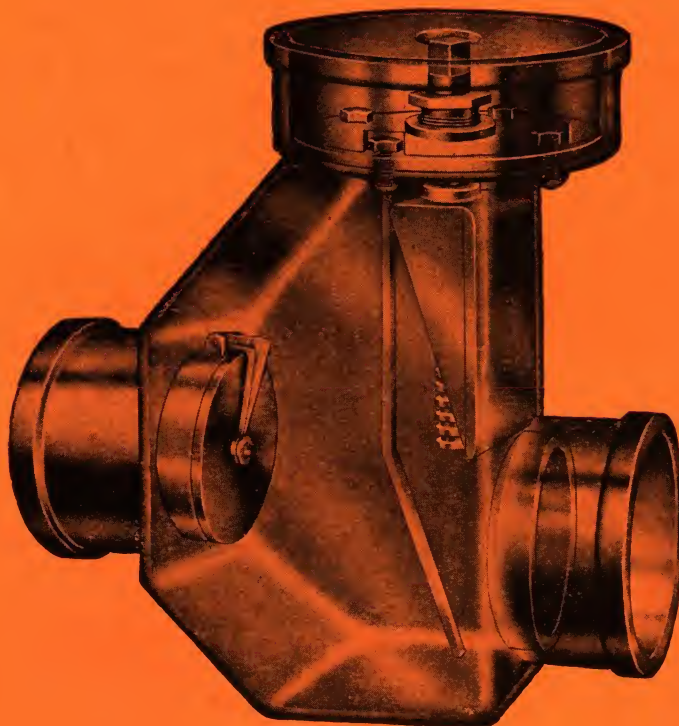

ARCHITECTS AND ENGINEERS CATALOG
Nº 32

DRAINAGE
SPECIALTIES



NORMAN BOOSEY MANUFACTURING CO.
5140 HAMILTON AVENUE DETROIT, MICHIGAN

NORMAN BOOSEY MFG. CO.

Drainage Specialties

5140 Hamilton Avenue, DETROIT, MICH.

PRODUCTS

AREAWAY and FACTORY DRAINS
BACKWATER DRAINAGE CONTROL VALVES (automatic
and manually operated)
BACKWATER FLOOR DRAINS
BACKWATER PLENUM CHAMBER DRAINS
BACKWATER TILE DRAIN SUMPS
DECK and GUTTER DRAINS

FACTORY DRAINS
FLOOR, DRINKING FOUNTAIN and URINAL DRAINS
GARAGE SUMPS
RAMP GARAGE DRAINS
ROOF SUMPS
SEEPAGE DRAINS
SHOWER DRAINS

INTRODUCTION

Long experience and specialization have produced the Boosey line of drains. Careful analysis of the design of each individual unit will impress the most discriminating of the outstanding practicability and high quality of the line. There is a particular Boosey drain specially adapted for every purpose.

Especial attention is called to the various drains and devices which, when properly installed, assure a dry, odorless basement under all conditions. On this and the following page, for the convenience of the architect and the sanitary engineer, is suggested a practical solution of the basement drainage problem.

The solution of this problem has required a great deal of time and effort since it requires engineering skill that is not demanded by the average plumbing

code. However, codes recognize this problem and provide for it by including a clause of this kind—"In localities where street sewers become gorged during heavy rains and there is danger of basements being flooded with sewage, cast iron sewers with separate control for basement drainage is recommended." This clause recognizes the fact that abnormal conditions put the solution of this drainage problem squarely up to the architect and engineer.

The nominal added cost of such a system of drainage is well warranted in the original installation when the damage and unsanitary conditions of flooded basements and the additional costs of even partial correction in the way of alterations are taken into consideration.

Complete information, including prices, on the entire line in cast iron, painted or galvanized, with hub, tapped or spigot outlets, bronze metal strainers polished, nickel or chromium plated, contained in convenient 200 page folder A.I.A. 29-C. Mailed on request.

A GRAVITY DRAINAGE SYSTEM THAT GUARANTEES A DRY ODORLESS BASEMENT

The 1-2-3-4 System of gravity drainage using Boosey's drainage controls prevents the flooding of basements with sewage, provides for the free circulation of fresh air through the storm water system and eliminates any chance of air from the street sewer entering the basement through the floor drain. It also provides an approved method of venting public sewers through the sanitary drainage system of buildings, thereby greatly diminishing the escape of foul odors from public sewers at manholes and curb drains at street levels. This construction also prevents the heaving and cracking of basement floors during the back-pressure period.

A. Drainage control valve both automatic and manually operated, placed in the No. 4 line to prevent street sewage backflowing through basement fixtures and flooding basement. (Valve—Boosey's No. 109)

B. Drainage control valve both automatic and manually operated, placed in the No. 2 line to prevent storm water from conductor lines backflowing through floor drains and seepage tile and flooding basement. (Valve—Boosey's No. 109)

C. Cast iron tile drain sand trap, with backwater valve above trap seal to prevent water from floor drains backflowing into seepage tile lines around basement wall during the closed period of control valve on line No. 2. (Tile Drain Sand Trap—Boosey's No. 117)

D. Cast iron; relief sump, size 18x30 ins., into which the excess seepage water from tile lines and discharge from floor drains empty during the period when control valve on storm water line No. 2 is closed. Placed in sump is either hydraulic or electric pump to automatically remove water from sump whenever the water rises in sump to within 6 ins. of the basement floor line. The discharge from sump pump can be connected to storm water sewer anywhere on the sewer side of

the control valve on the storm water system. The removal of seepage water prevents wet walls and the cracking and heaving of basement floor. (Relief Sump—Boosey's No. 635)

E. Rainwater trap on line No. 1. When located at a point on main storm water line between the public sewer and the first conductor branch, only one trap is necessary to prevent sewer air from passing up through the conductor lines and storm water system is open for the free circulation of fresh air. The seal of rainwater trap thus placed is practically assured whether the building is occupied or vacant, as all water from conductors, seepage tile and floor drains passes through this trap. With this system as many basement floor drains as desired may be installed, for should any one of these lose its seal from evaporation there is not a chance for sewer air from public sewer entering basement through floor drains. The one reason for deep seal traps on floor drains is that it is much easier to remove dirt from floor drain trap than from the sewer.

F. Under certain conditions sanitary science approves of omitting the house trap on sanitary line wherever buildings are of a uniform height and the soil pipe stack is carried above the high point of roof. The omitting of house trap on sanitary lines provides for the general venting of public sewers through soil stacks and greatly lessens the odor of sewer air at curb drains and manholes at street levels.

G. In the better class of residences slop sinks are appreciated in the laundry. This fixture to be of the greatest value is placed at floor level and necessitates the placing of a backwater valve in sink above the water seal in trap, to prevent the basement closet or laundry tubs from discharging into slop sink and overflowing into basement when the control valve on line No. 4 is closed. (Boosey's No. 193 Slop Sink.)

H. Cast iron conductors extended one foot above grade.

J. Cast iron cross connection uniting the inner and outer seepage tile lines at the base of foundation wall.

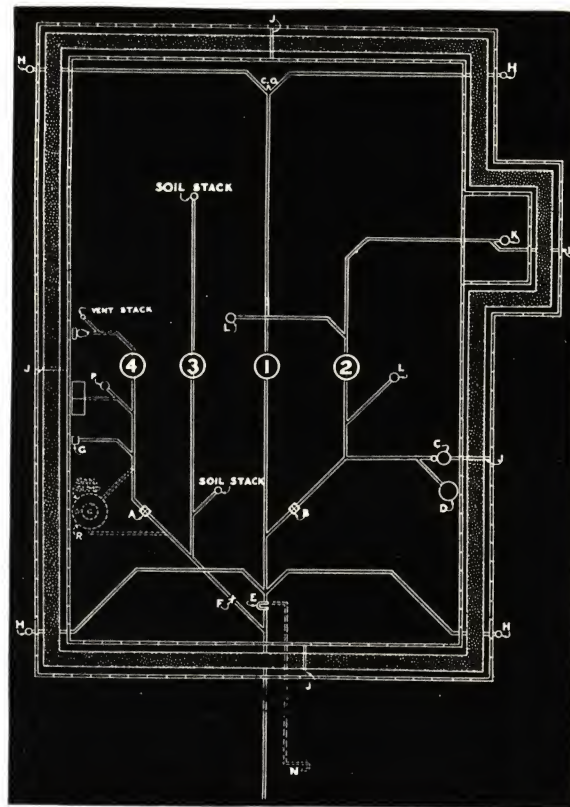
K. Cast iron area drain with flat or beehive strainers connected to storm water line. (Boosey's No. 134 C. I. flat or No. 134 H Beehive strainer.)

L. Cast iron floor drain with deep seal trap. The reason for deep seal traps on floor drains is that it is much easier to remove dirt from trap than from sewer. (Boosey's No. 134 C. I. 106 iron strainer or Boosey's No. 134 G 106 brass hinged strainer.) Brass strainers are recommended for all basement floor drains, because nothing adds more to the general high grade appearance of the building.

M. Cast iron air inlet from above grade to floor drain line.

N. Cast iron relief from rainwater trap on storm water line. This is to prevent water overflowing fixtures on the first floor should the yard or main sewer become clogged.

P. Cast iron floor drain in laundry. This drain installed at floor level, on account of being used as the waste from washing machine is considered as an additional fixture and connects to the sanitary line. A backwater valve placed in drain just below the strainer where it is accessible for inspection and cleaning is recommended to prevent water from laundry tub and closet backflowing through floor drain when the drainage control valve on line No. 4 is closed. (Back-



water Floor Drain — Boosey's No. 108.)

R. Where basement fixtures are to be used when control valve is closed, it is necessary to by-pass control valve in sanitary line No. 4 by installing a cast iron, vented sump equipped with pump to discharge sewage back into line No. 4 on sewer side of control valve, as shown by dotted lines.

No. 1 Storm water line; cast iron extends from rainwater trap to 12 ins. above grade for downspouts.

No. 2 Basement drainage line; cast iron branch from line No. 1 to which all floor drains, seepage tile drains, areaway drains, and relief sump are connected.

No. 3 Sanitary drainage line, cast iron extending from 5 ft. outside basement wall and carried up above high point of roof. To this line are connected all soil stacks from sanitary fixtures above basement.

No. 4 Basement sanitary line, cast iron branch from line No. 3 vented through roof and to which are connected basement fixtures only.

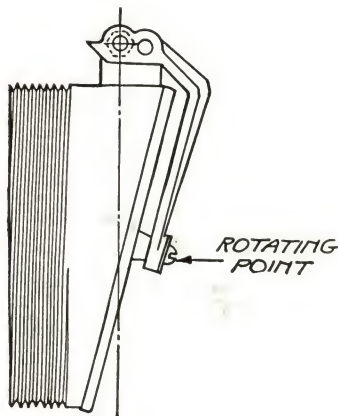
Guarantee

Drainage installed in accordance with the Boosey 1-2-3-4 System of Gravity Drainage, will positively prevent street sewage backflowing through the house sewer and flooding the basement, when valves A and B on lines 2 and 4 are closed. These valves do not interfere with the free flow of water from the rain water conductors or from fixtures above basement that are connected to the soil pipe stacks.

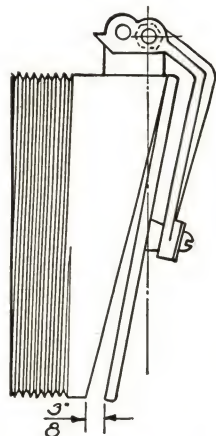
BOOSEY BALANCED CHECK VALVE

The Boosey balanced swing check valve embodies the latest improvements in construction, which under normal conditions assures the opening and closing of the valve with each flush of water. Due to the vanes on the disc, it rotates with each flush, which cleans the seat, keeping the valve in readi-

ness to protect the building's basement and contents from the destructive action of backflowing street sewage. Thousands of these silent, invisible guardians of health and investment are performing their duties daily and doing it so efficiently that building owners have forgotten their very existence.



Swing Valve Adjusted to Open with 1-inch Head of Water



Swing Valve Adjusted to Hang Open $\frac{3}{8}$ Inch for Air Circulation



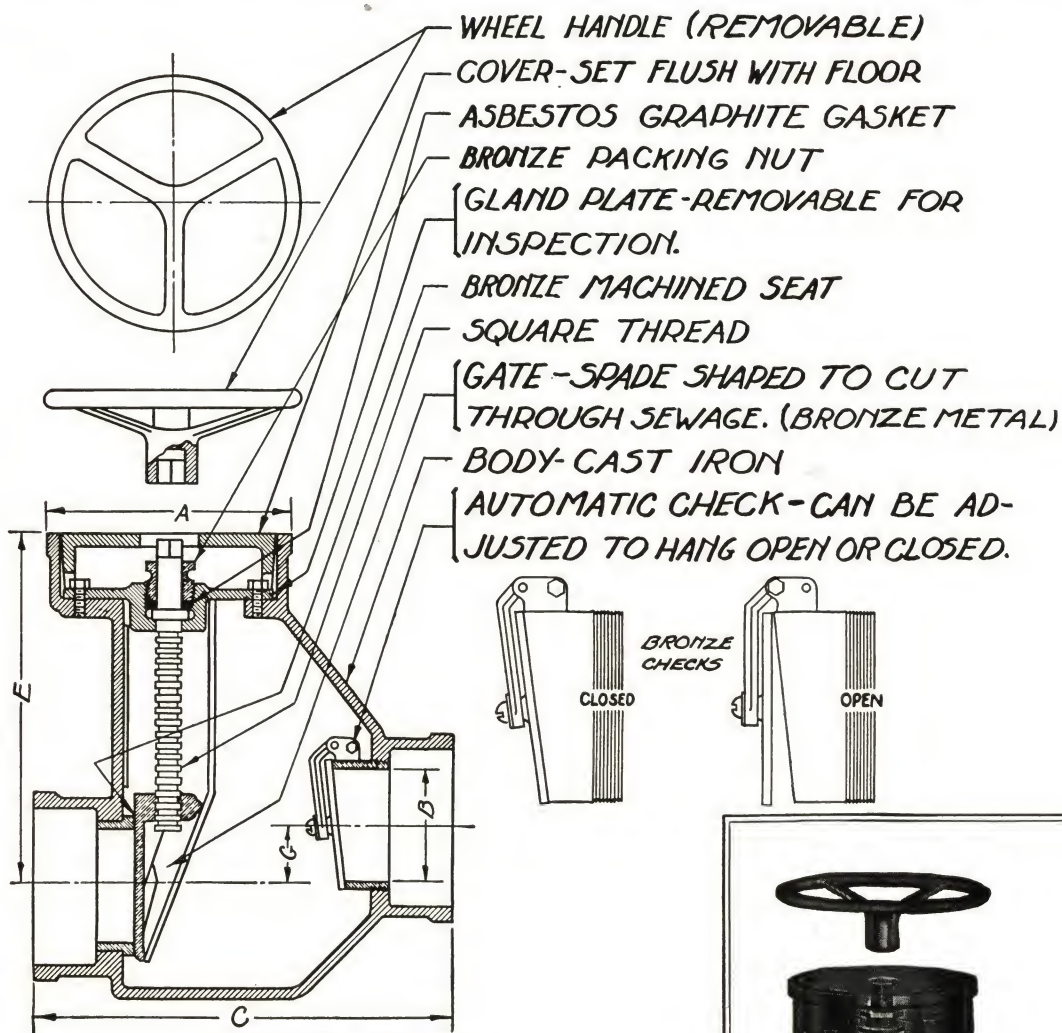
BRONZE METAL CHECK VALVE

BOOSEY

IN MODERNIZING BASEMENTS EVERYTHING DEPENDS UPON THE CONTROL OF THE DRAINAGE INSTALLATION WHICH LIES BELOW BASEMENT FLOOR, OTHERWISE, GORGED STREET SEWERS BACK FLOW THROUGH THE BASEMENT DRAINAGE LINES RUINING BASEMENT CONTENTS AND DECORATIONS.

DRAINAGE CONTROL VALVE

WITH AUTOMATIC SELF CLOSING VALVE AND HAND OPERATED GATE. NON-RISING STEM



Nº109

SIZE	A	B	C	E	G
3	8	3	14	12	2
4	8	4	14	12	2
5	10½	5	16	15	2
6	10½	6	16	15	2

NO PIT REQUIRED
VALVE BODY EXTENDS TO FLOOR LINE

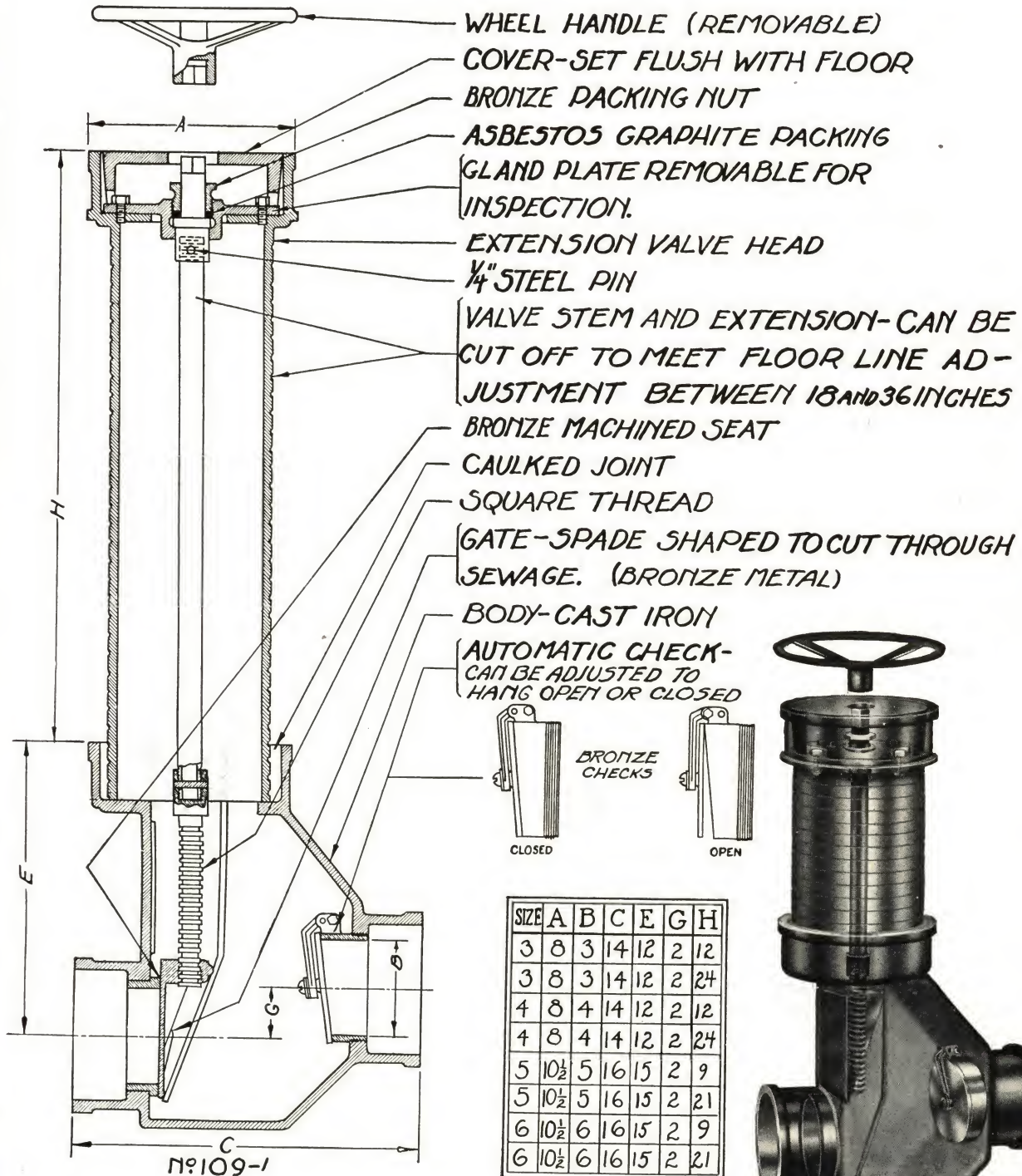


Nº109

BOOSEY

DRAINAGE CONTROL VALVE

WITH AUTOMATIC SELF CLOSING VALVE AND HAND OPERATED GATE. NON-RISEING STEM



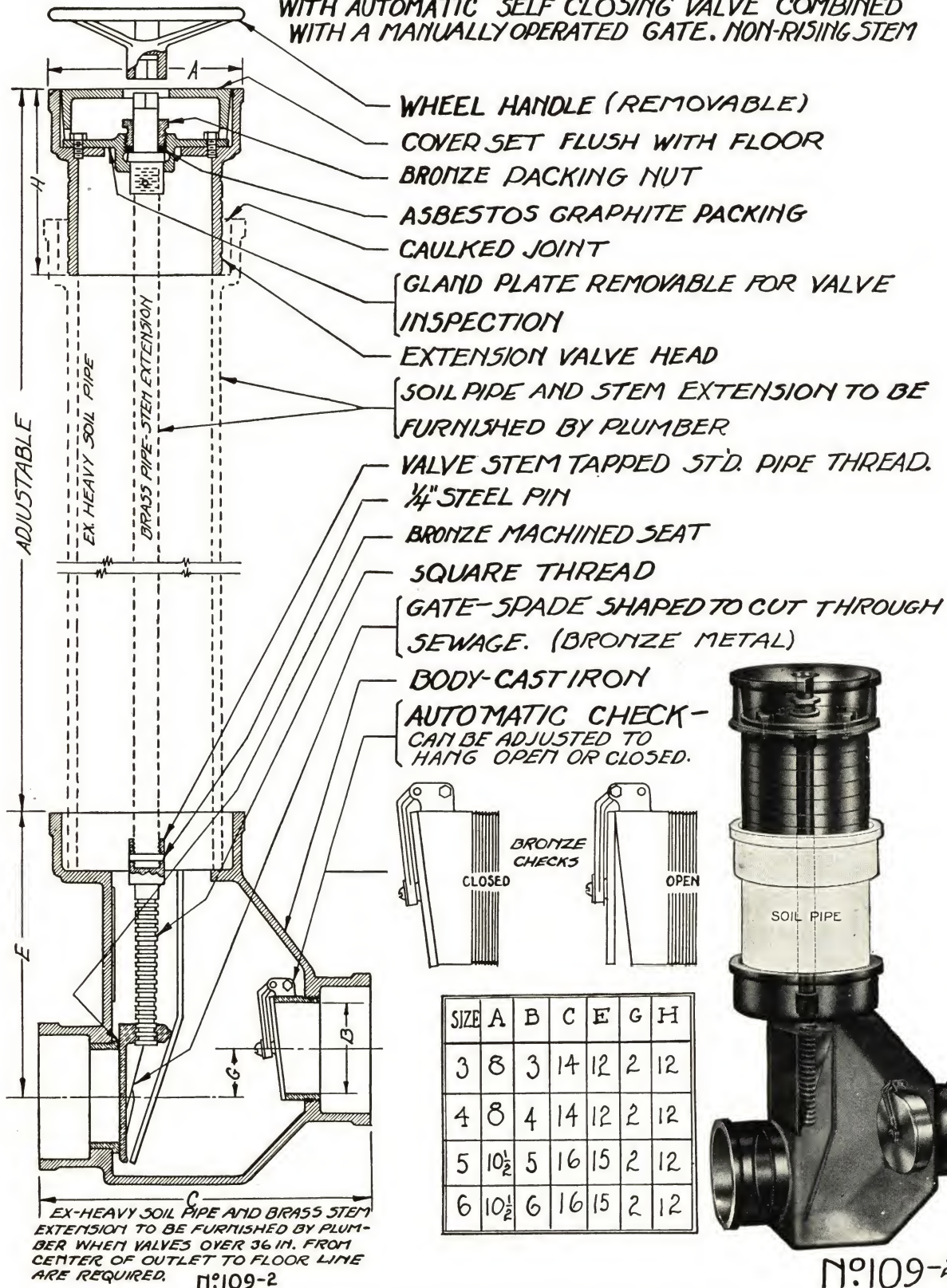
SPECIAL: LENGTHS OTHER THAN INDICATED FURNISHED TO ORDER TO WITHIN 6 INCHES OF "E" DIMENSION.



N°109-1

BOOSEY

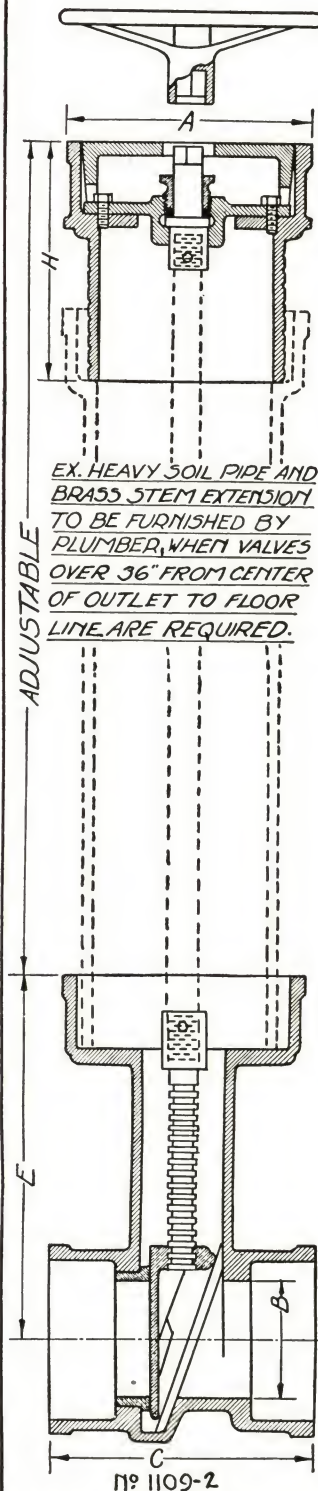
DRAINAGE CONTROL VALVE WITH AUTOMATIC SELF CLOSING VALVE COMBINED WITH A MANUALLY OPERATED GATE. NON-RISING STEM



N°109-2

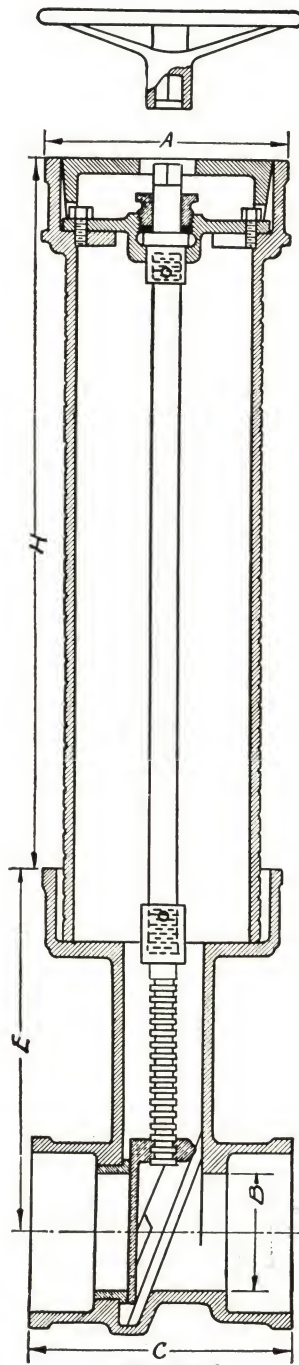
BOOSEY

DRAINAGE CONTROL VALVE WITH MANUALLY OPERATED GATE, NON-RISING STEM

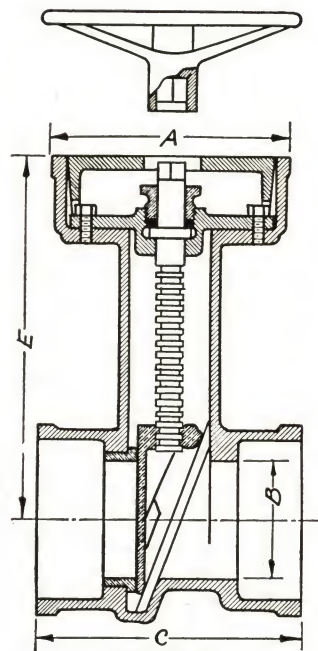


EX. HEAVY SOIL PIPE AND
BRASS STEM EXTENSION
TO BE FURNISHED BY
PLUMBER WHEN VALVES
OVER 36" FROM CENTER
OF OUTLET TO FLOOR
LINE ARE REQUIRED.

№ 1109-2
VALVE HEAD EXTENDED TO
FLOOR LINE WITH SOIL
PIPE AND BRASS STEM EX-
TENSION.



№ 1109-1
SPECIAL-LENGTHS OTHER
THAN INDICATED FURNISHED
TO ORDER TO WITHIN 6 IN.
OF "E" DIMENSIONS



№ 1109
DRAINAGE CONTROL
VALVE.

No.	Size	A	B	C	E	H
1109	3	8	3	8½	12	
1109	4	8	4	8½	12	
1109	5	10½	5	9½	15	
1109	6	10½	6	9½	15	
1109-0	3	8	3	8½	12	24
1109-0	4	8	4	8½	12	24
1109-0	5	10½	5	9½	15	21
1109-0	6	10½	6	9½	15	21
1109-2	3	8	3	8½	12	12
1109-2	4	8	4	8½	12	12
1109-2	5	10½	5	9½	15	12
1109-2	6	10½	6	9½	15	12

NO PIT REQUIRED
VALVE BODY EXTENDS TO FLOOR LINE



№ 1109

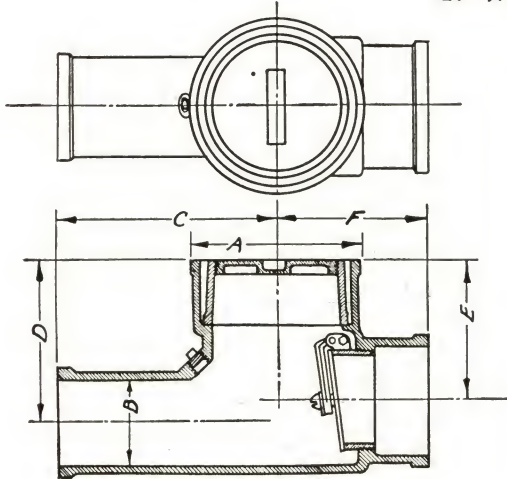
BOOSEY

SIZE	A	B	C	D	E	F
3	6	3	10	7½	7½	5
4	7	4	10	7½	7½	6
6	9¾	6	12	10	8	7½

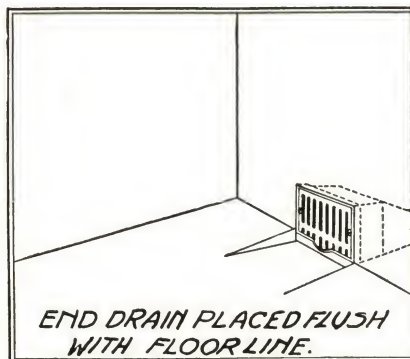
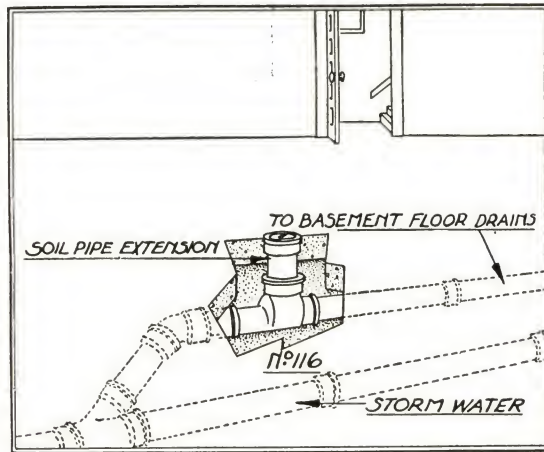
Nº116

BACK WATER DRAINAGE VALVE WITH HUB TOP FOR EXTENSION TO FLOOR LINE.

MADE X.H. AND WITH ACCESSIBLE BRONZE
METAL BALANCED SWING VALVE WITH ROTAT-
ING VANES ON DISC FOR SELF-CLEANING
OF VALVE SEAT.



Nº116

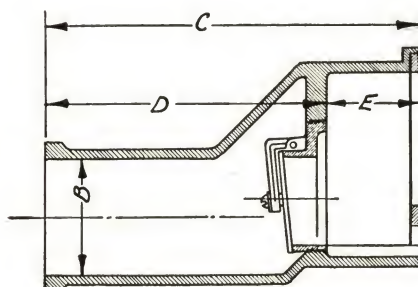


BACK WATER END DRAIN.

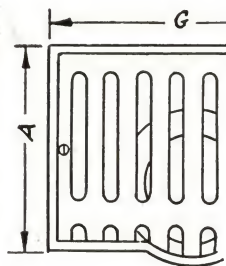
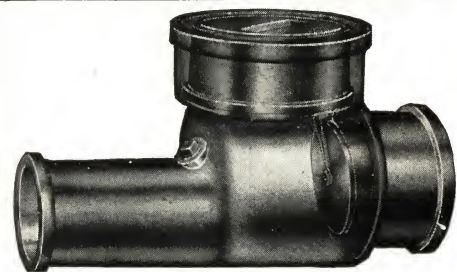
FOR ELEVATOR, CONDUIT OR-
METER PITS, TUNNELS, AND
VALVE MAN HOLES.

SIZE	A	B	C	D	E	G
4	7	4	13	10	3	9
6	8	6	13	10	3	11

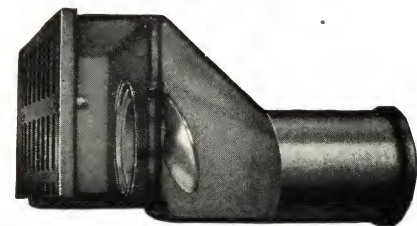
Nº113



Nº113

REMOVABLE
CAST IRON STRAINER

Nº116



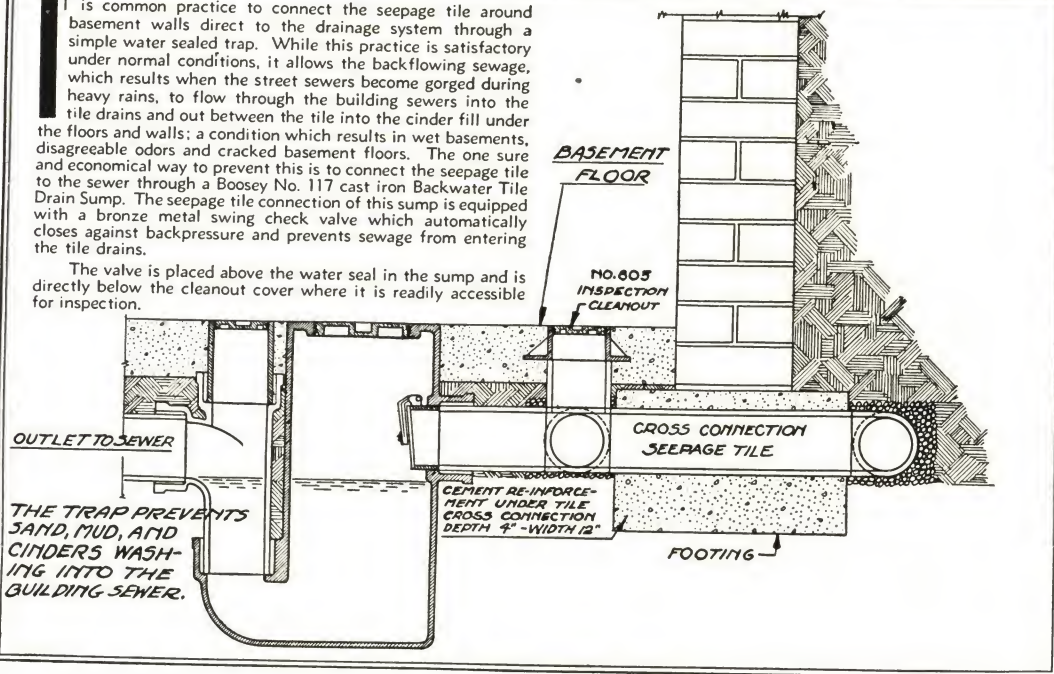
Nº113

BOOSEY

SEEPAGE TILE DRAIN SUMP

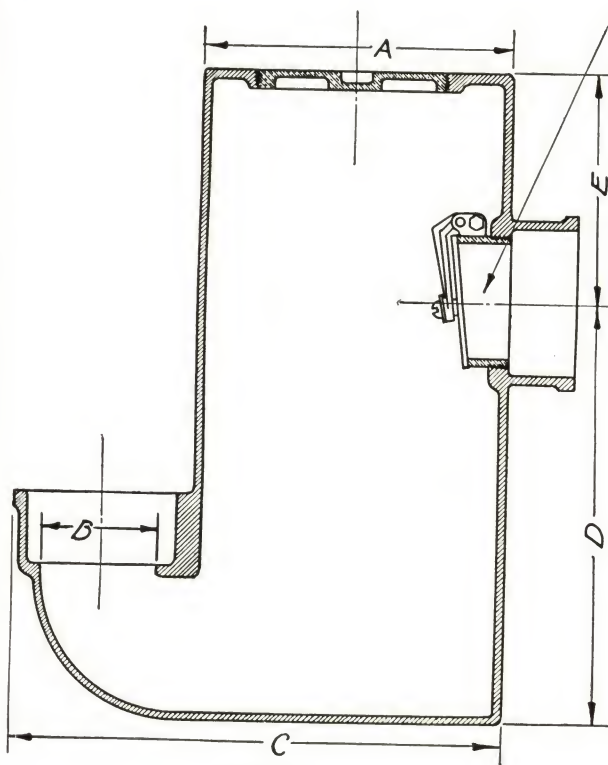
It is common practice to connect the seepage tile around basement walls direct to the drainage system through a simple water sealed trap. While this practice is satisfactory under normal conditions, it allows the backflowing sewage, which results when the street sewers become gorged during heavy rains, to flow through the building sewers into the tile drains and out between the tile into the cinder fill under the floors and walls; a condition which results in wet basements, disagreeable odors and cracked basement floors. The one sure and economical way to prevent this is to connect the seepage tile to the sewer through a Boosey No. 117 cast iron Backwater Tile Drain Sump. The seepage tile connection of this sump is equipped with a bronze metal swing check valve which automatically closes against backpressure and prevents sewage from entering the tile drains.

The valve is placed above the water seal in the sump and is directly below the cleanout cover where it is readily accessible for inspection.

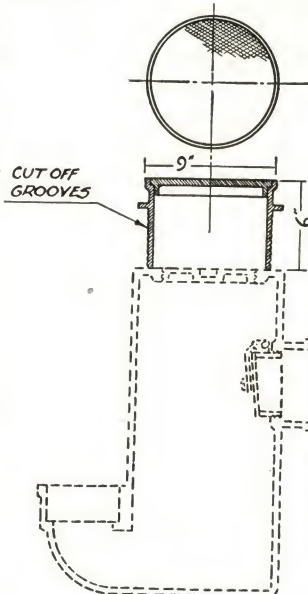


VALVE PREVENTS GORGED STREET SEWERS BACKFLOWING THROUGH SEEPAGE TILE AROUND THE FOUNDATION WALLS-THUS PREVENTING HYDRO-STATIC PRESSURE HEAVING AND CRACKING BASEMENT FLOOR. THE VALVE ALSO PREVENTS THE CLOGGING OF SEEPAGE DRAINS AND CINDER BED UNDER BASEMENT FLOOR WITH SEWAGE.

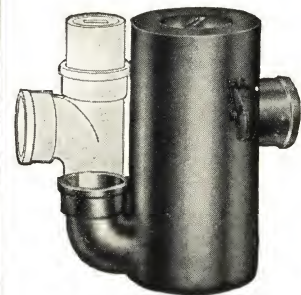
A	B	C	D	E
10½	4	16½	14½	7½



№ 117



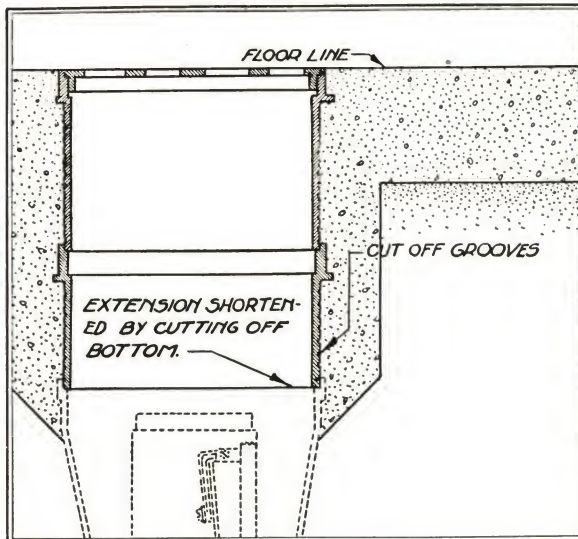
№ 117 WITH EXTENSION



№ 117

BOOSEY

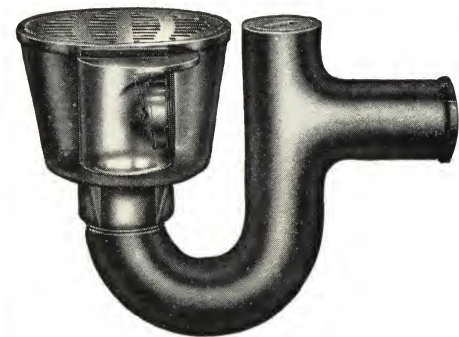
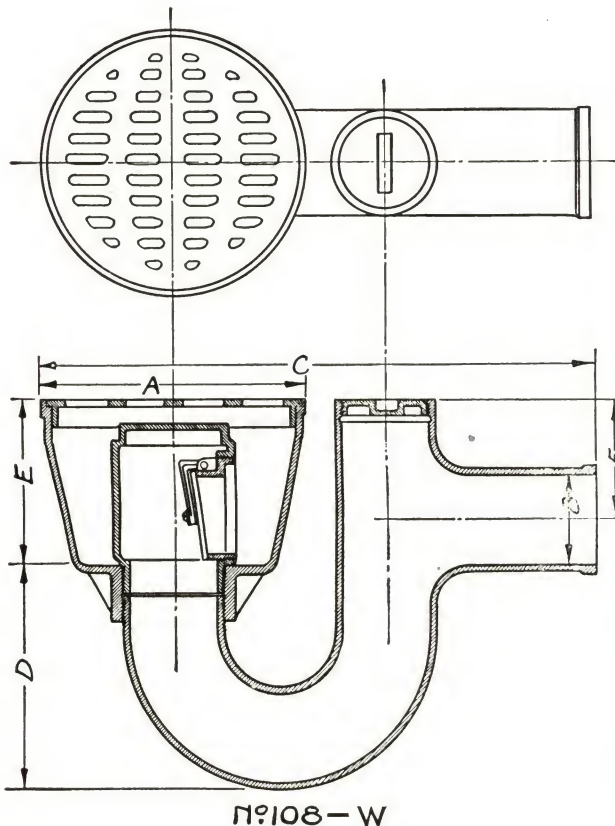
BACK PRESSURE FLOOR DRAINS WITH DEEP SEAL TRAP AND CLEANOUT



FLOOR DRAIN EXTENSION FURNISHED IN 6 INCH LENGTHS

Nº	A	B	C	D	E	F
108	9	2	12	5	5½	4
108	9	3	19	8	5½	4½
108	9	4	20½	9¼	5½	5

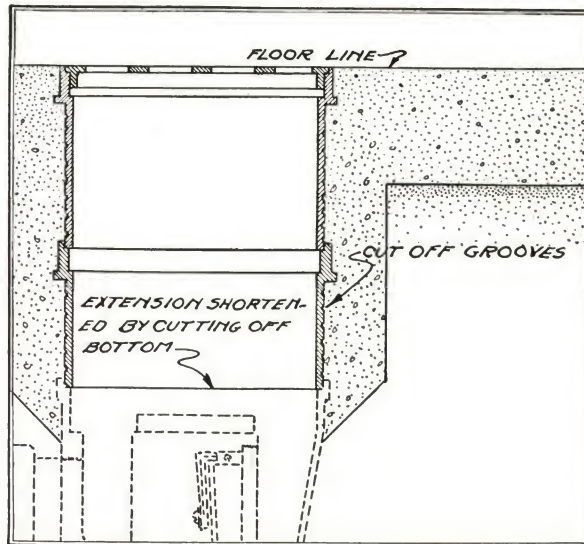
BODY-CAST IRON, PAINTED OR GALVANIZED, WITH IRON OR BRONZE STRAINER OR ALL BRONZE TOP. BRONZE METAL BALANCED SWING CHECK VALVE, INCASED IN REMOVABLE IRON CYLINDER.



Nº 108 - W

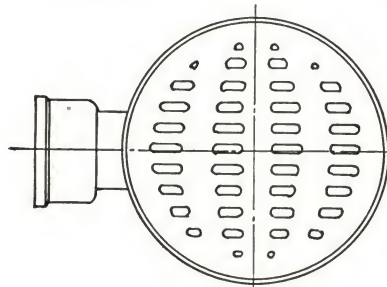
BOOSEY

BACK PRESSURE FLOOR DRAINS WITH SPIGOT OUTLET AND AUXILIARY INLET

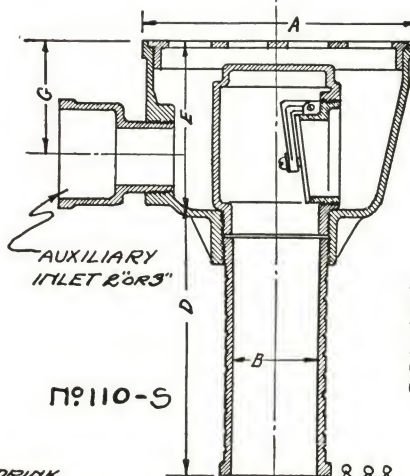


FLOOR DRAIN EXTENSION FURNISHED IN 6" LENGTHS

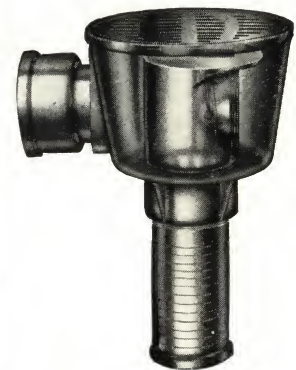
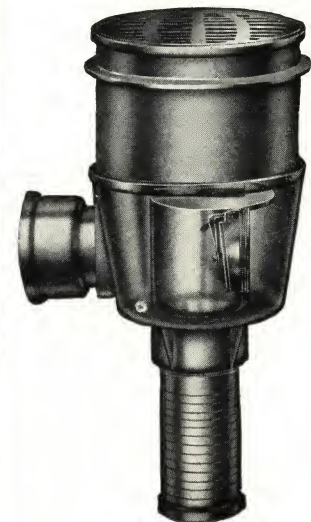
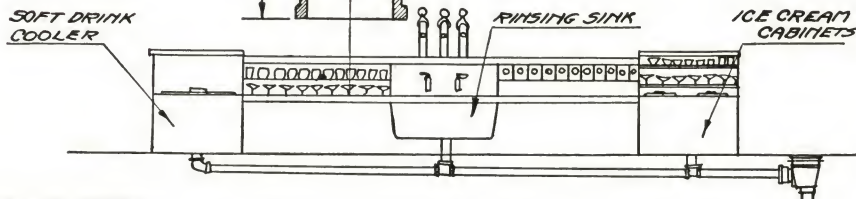
Nº	A	B	D	E	G	
					2" HUB	3" HUB
110S	9	2	8	5½	4	3¾
110S	9	3	8	5½	4	3¾
110S	9	4	8	5½	4	3¾



BODY-CAST IRON, PAINTED OR GALVANIZED, WITH IRON OR BRONZE STRAINER OR ALL BRONZE TOP. BRONZE METAL BALANCED SWING CHECK VALVE, INCASED IN REMOVABLE IRON CYLINDER.



THE INSTALLATION OF WASTES FROM COOLERS, RINSING SINKS AND COUNTER DRAINS IN STORES WITHOUT BASEMENTS, WHEN REMODELLED FOR SOFT DRINK PARLORS, CONFECTIONERY OR DRUG STORES, CAN BE MADE AT MINIMUM EXPENSE BY CONNECTING THEM TO DRAIN NO. 110-S.



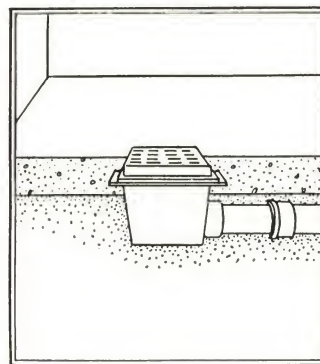
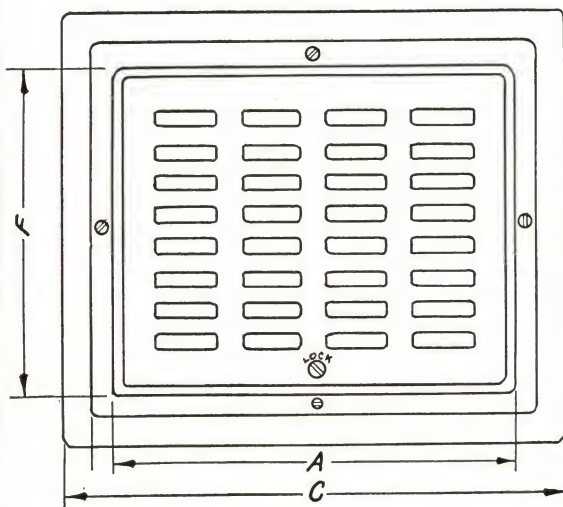
Nº 110-S

BOOSEY

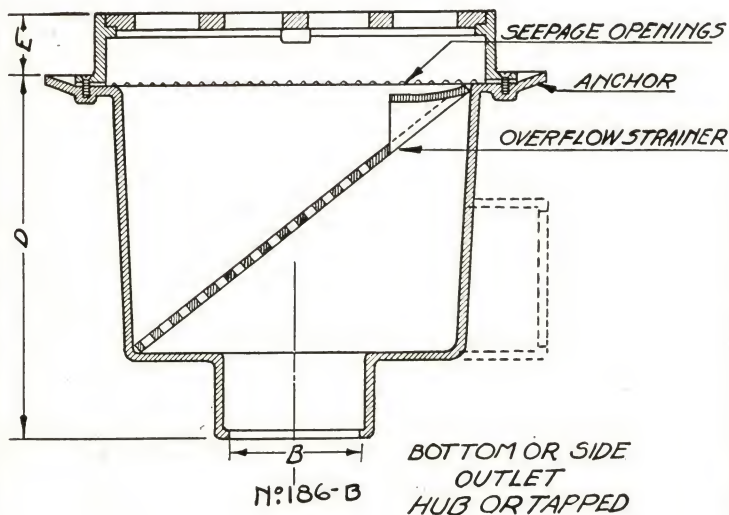
INDUSTRIAL FLOOR DRAIN

NO. 186-B IS OF THE SEEPAGE DRAINAGE TYPE AND PROVIDES POSITIVE WATER TIGHT FLOOR CONSTRUCTION. A SEEPAGE PAN, CAST TO BODY OF DRAIN, ALSO ACTS AS AN ANCHOR SECURING THE DRAIN BODY PERMANENTLY IN THE CEMENT SLAB. DRAIN IS EQUIPPED WITH CAST IRON OR BRONZE REMOVABLE INTERMEDIATE STRAINER, 3/8" MESH, WITH ENLARGED OPENINGS AT TOP FOR OVERFLOW.

BODY OF DRAIN IS CAST IRON, PAINTED OR GALVANIZED. STRAINER AND FRAME; IRON, PAINTED OR GALVANIZED OR ALL BRONZE POLISHED OR PLATED, EITHER HINGED OR LOOSE SET, HELD IN PLACE WITH BRONZE LOCKING DEVICE. CARRYING CAPACITY OF IRON STRAINERS APPROXIMATELY 2 TONS. INLET AREA OF STRAINERS 30 SQUARE INCHES.



A	B	C	D	E	F
13 $\frac{1}{4}$	3	17	12 $\frac{1}{4}$	2 $\frac{1}{2}$, 4, or 6	11 $\frac{3}{4}$
13 $\frac{3}{4}$	4	17	12 $\frac{1}{4}$	2 $\frac{1}{2}$, 4, or 6	11 $\frac{3}{4}$



SUITABLE FOR-FACTORIES, AUTO STORAGE YARDS, AND UNHEATED BUILDINGS.

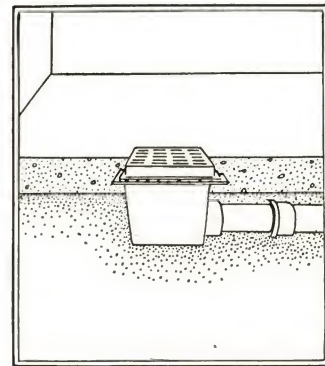
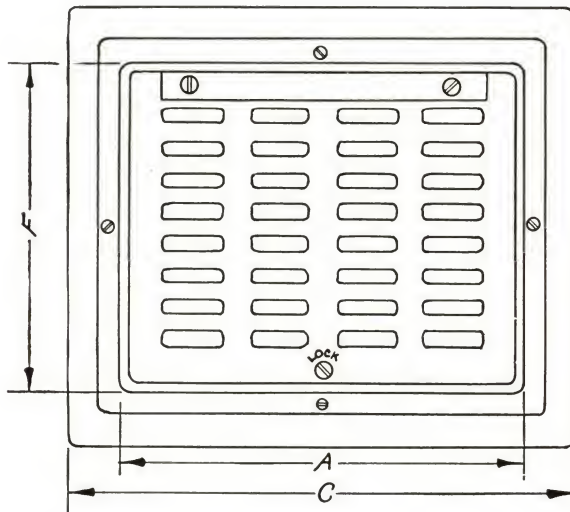


N°186-B

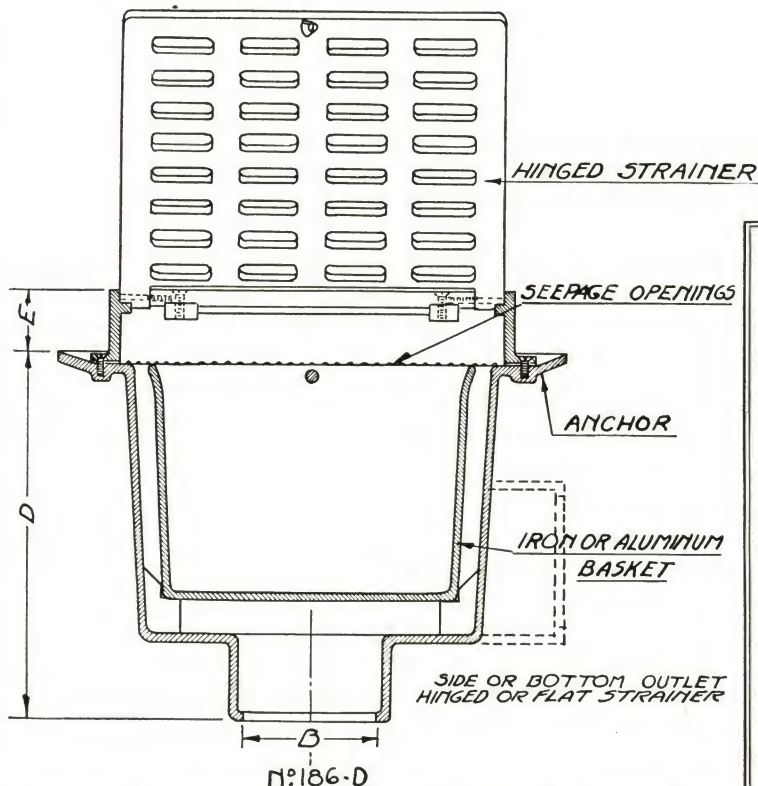
BOOSEY

FACTORY SEDIMENT FLOOR DRAIN

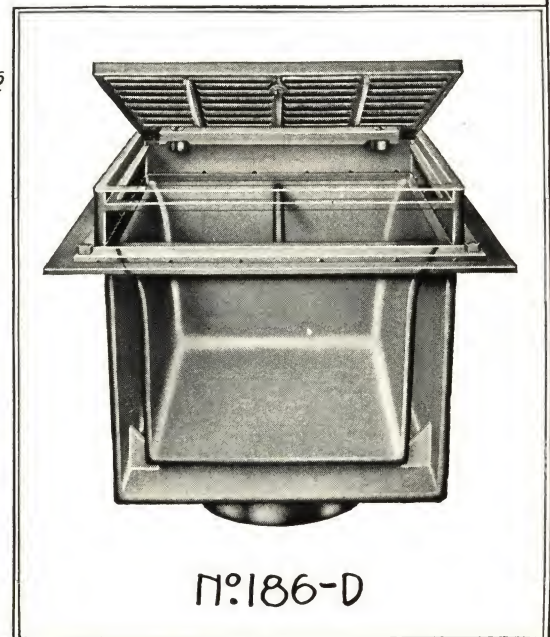
NO. 186-D IS OF THE SEEPAGE DRAINAGE TYPE AND PROVIDES POSITIVE WATER TIGHT FLOOR CONSTRUCTION. A SEEPAGE PAN, CAST TO BODY OF DRAIN, ALSO ACTS AS AN ANCHOR SECURING THE DRAIN BODY PERMANENTLY IN THE CEMENT SLAB. DRAIN IS EQUIPPED WITH REMOVABLE IRON OR ALUMINUM BASKET, OVER-FLOW TYPE, FOR KEEPING THE SIDES FLUSHED CLEAN. BODY OF DRAIN IS CAST IRON, PAINTED OR GALVANIZED. STRAINER AND FRAME; IRON, PAINTED OR GALVANIZED OR ALL BRONZE POLISHED OR PLATED, EITHER HINGED OR LOOSE SET, HELD IN PLACE WITH BRONZE LOCKING DEVICE. CARRYING CAPACITY OF IRON STRAINER APPROXIMATELY 2 TONS. INLET AREA OF STRAINERS 30 SQUARE INCHES.



A	B	C	D	E	F
13 $\frac{3}{4}$	3	17	12 $\frac{1}{2}$	2 $\frac{1}{2}$, 4, or 6"	11 $\frac{3}{4}$
13 $\frac{3}{4}$	4	17	12 $\frac{1}{2}$	2 $\frac{1}{2}$, 4, or 6"	11 $\frac{3}{4}$



OVERFLOW FROM BASKET KEEPS THE SIDES OF DRAIN CLEAN.



N:186-D

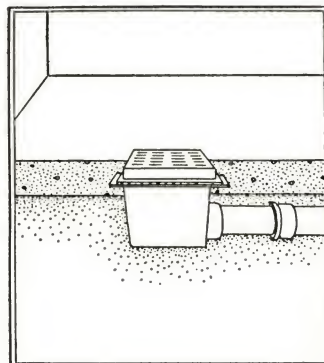
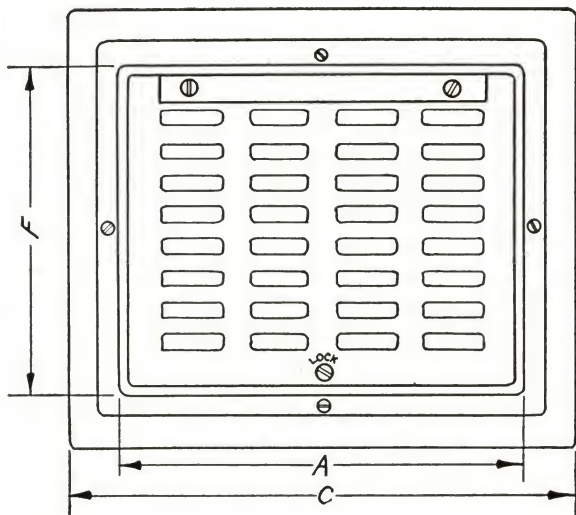
BOOSEY

ANTI CLOG DRAIN

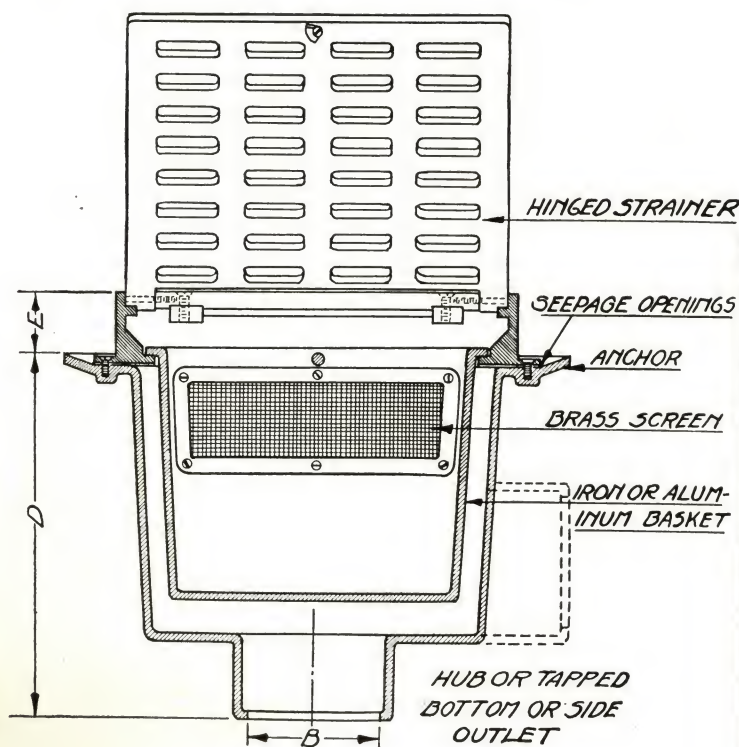
NO. 186-E IS OF THE SEEPAGE DRAINAGE TYPE AND PROVIDES POSITIVE WATER TIGHT FLOOR CONSTRUCTION. A SEEPAGE PAN, CAST TO BODY OF DRAIN, ALSO ACTS AS AN ANCHOR SECURING THE DRAIN BODY PERMANENTLY IN THE CEMENT SLAB.

DRAIN IS EQUIPPED WITH REMOVABLE IRON OR ALUMINUM BASKET WHICH FORMS A SEDIMENT CHAMBER BELOW STRAINER TO RECEIVE LIQUIDS AND SOLIDS. LIQUIDS DISCHARGE FROM BASKET THROUGH A BRASS SCREEN OF ANY DESIRED MESH, PLACED IN THE UPPER PART OF BASKET WHILE SOLIDS ARE RETAINED IN THE BASKET, THEREBY PREVENTING THE CLOGGING OF THE DRAIN LINE.

BODY OF DRAIN IS CAST IRON, PAINTED OR GALVANIZED. STRAINER AND FRAME; IRON, PAINTED OR GALVANIZED OR ALL BRONZE POLISHED OR PLATED, EITHER HINGED OR LOOSE SET, HELD IN PLACE WITH BRONZE LOCKING DEVICE. CARRYING CAPACITY OF IRON STRAINERS APPROXIMATELY 2 TONS. INLET AREA OF STRAINERS 30 SQUARE INCHES.

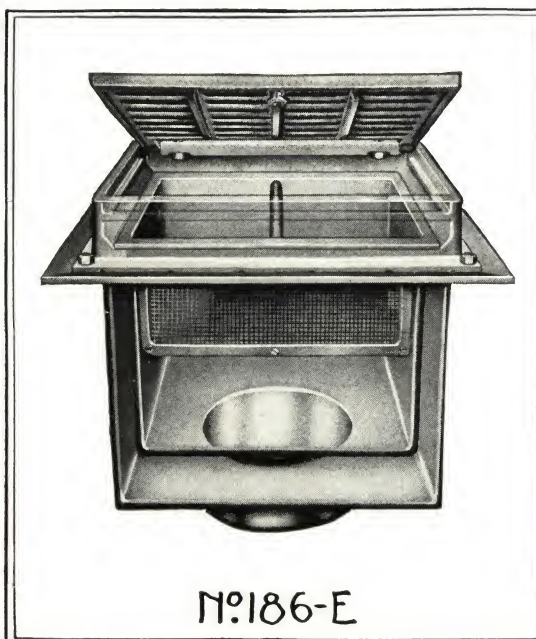


A	B	C	D	E	F
13 $\frac{3}{4}$	3	17	12 $\frac{1}{2}$	2 $\frac{1}{2}$, 4, or 6	11 $\frac{3}{4}$
13 $\frac{3}{4}$	4	17	12 $\frac{1}{2}$	2 $\frac{1}{2}$, 4, or 6	11 $\frac{3}{4}$



NO. 186E

SUITABLE FOR-DENTAL LABORATORIES, DUCCO PAINT DEPARTMENTS, SCHOOLS, AND TESTING LABORATORIES.

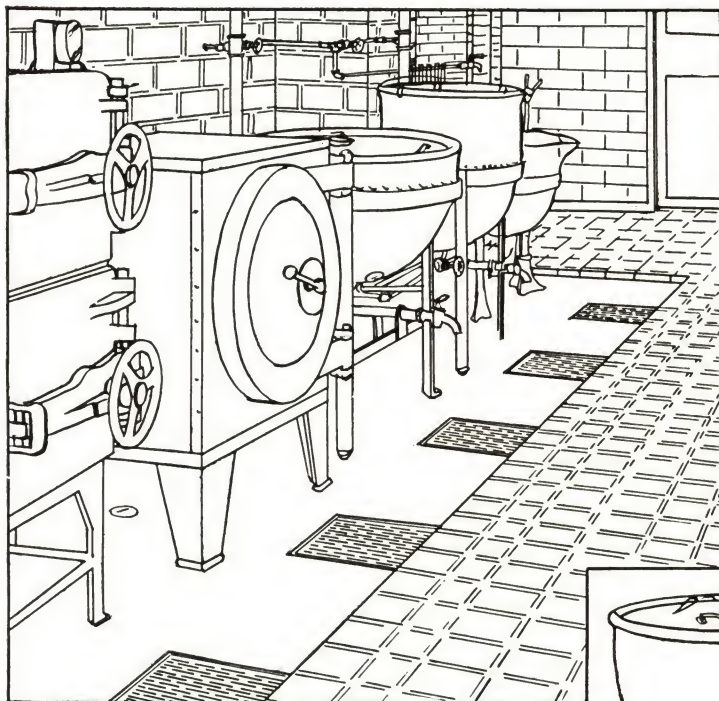


NO. 186-E

BOOSEY

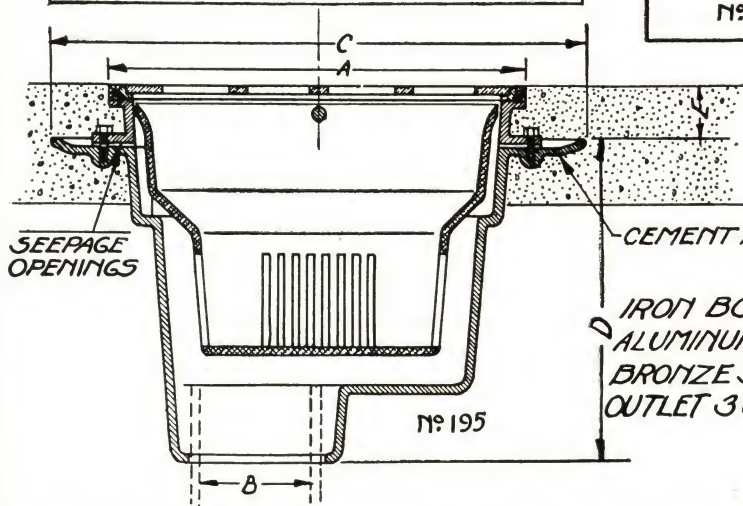
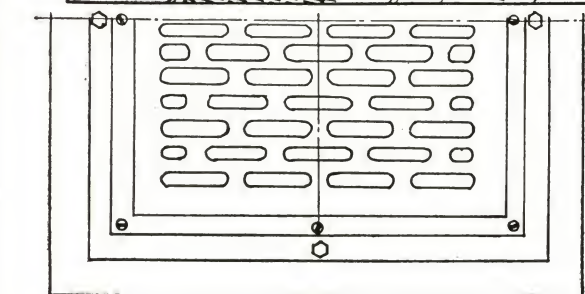
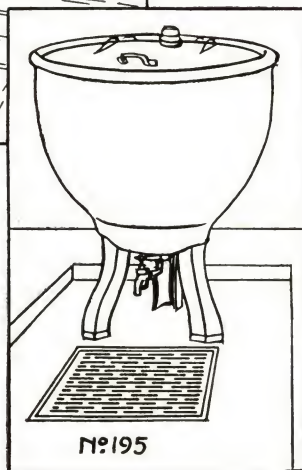
KITCHEN FLOOR DRAIN WITH ALUMINUM BASKET

STRAINER, BRONZE METAL, OF THE LIFT OFF TYPE-
NO HIDDEN CORNERS- WHEN THE BASKET IS RE-
MOVED, ALL PARTS ARE ACCESSIBLE FOR CLEANING

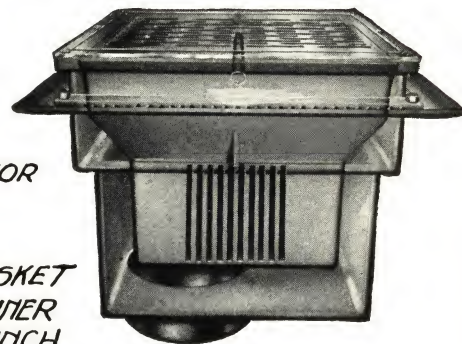


OUTLET	A	B	C	D	E
HUB	14	3	18	11	1 3/4
TAP	14	3	18	11	1 3/4
SPIGOT	14	3	18	11	1 3/4
HUB	14	4	18	11	1 3/4
TAP	14	4	18	11	1 3/4
SPIGOT	14	4	18	11	1 3/4

APPROVED KITCHEN
DRAIN FOR-
RESTAURANTS
HOTELS
HOSPITALS



IRON BODY
ALUMINUM BASKET
BRONZE STRAINER
OUTLET 3 OR 4 INCH

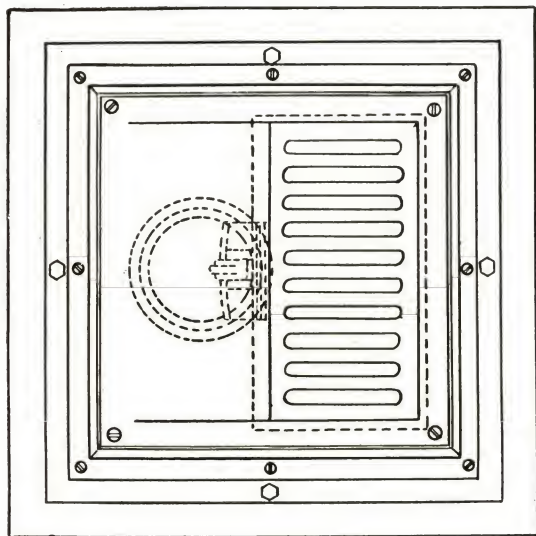


Nº195

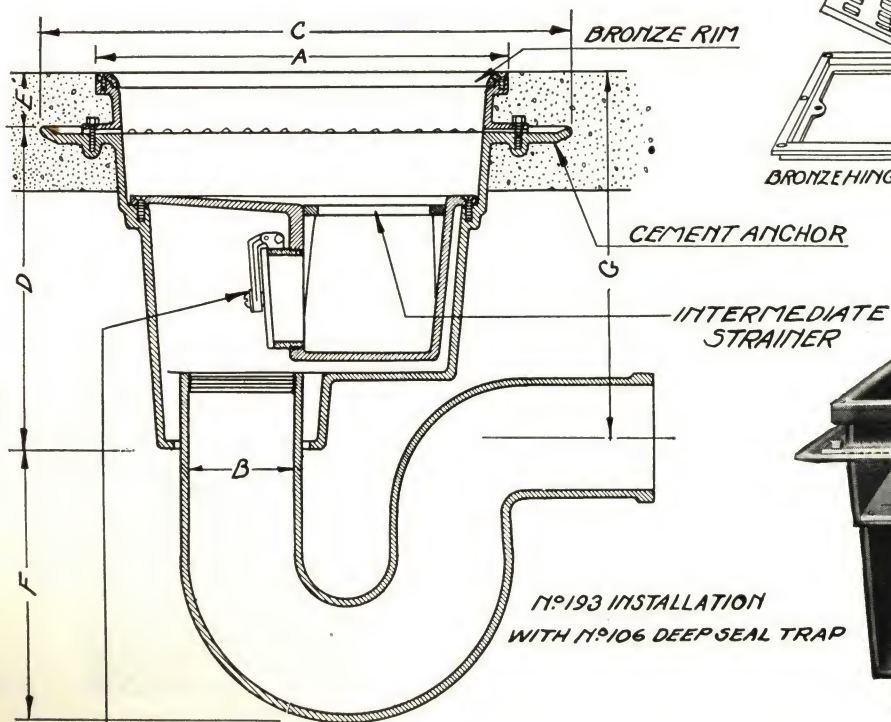
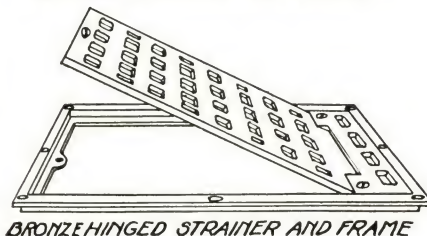
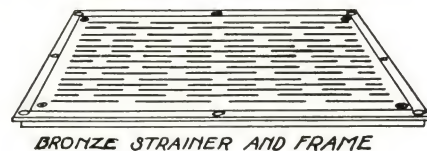
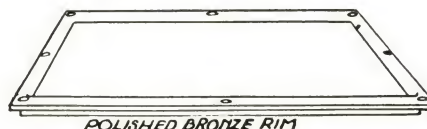
BOOSEY

BACK PRESSURE SLOP SINKS STORES HOTELS HOSPITALS

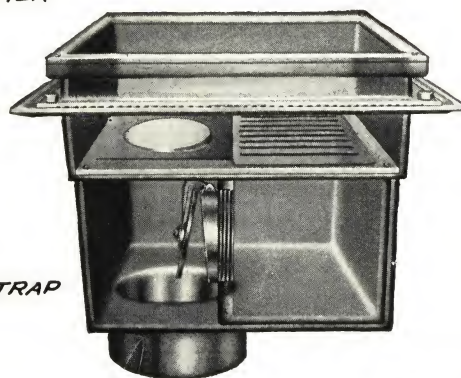
NO. 193 DRAIN, SEEPAGE TYPE, BODY CAST IRON, PAINTED OR GALVANIZED.
STRAINER OR RIM, IRON OR BRONZE. INTERMEDIATE STRAINER IRON OR BRONZE.
ACCESSIBLE BRONZE METAL BACK PRESSURE VALVE. SEEPAGE PAN CAST TO BODY
OF DRAIN ALSO PROVIDES ANCHORAGE FOR SECURING THE DRAIN PERMANENTLY
IN THE CEMENT SLAB.



OUTLET	A	B	C	D	E	F	G
HUB	14	3	18	11	1 $\frac{3}{4}$	7	13
TAP	14	3	18	11	1 $\frac{3}{4}$	7	13
SPIGOT	14	3	18	11	1 $\frac{3}{4}$	8	13
HUB	14	4	18	11	1 $\frac{3}{4}$	9 $\frac{1}{4}$	13
TAP	14	4	18	11	1 $\frac{3}{4}$	9 $\frac{1}{4}$	13
SPIGOT	14	4	18	11	1 $\frac{3}{4}$	8	13



VALVE PREVENTS SEWER AIR ENTERING THE BUILDING
SHOULD TRAP LOSE ITS SEAL FROM EVAPORATION



NO. 193

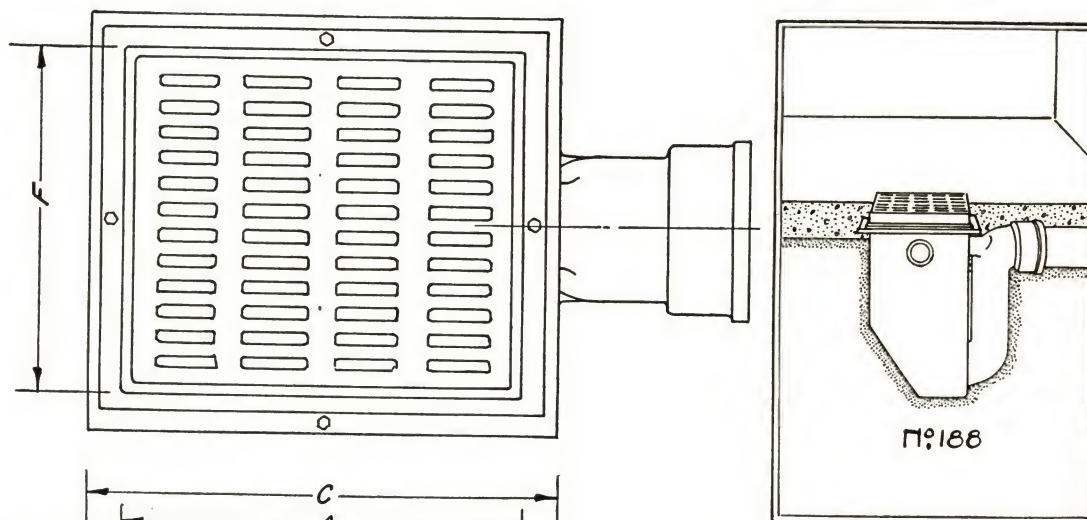
BOOSEY

GARAGE DRAIN

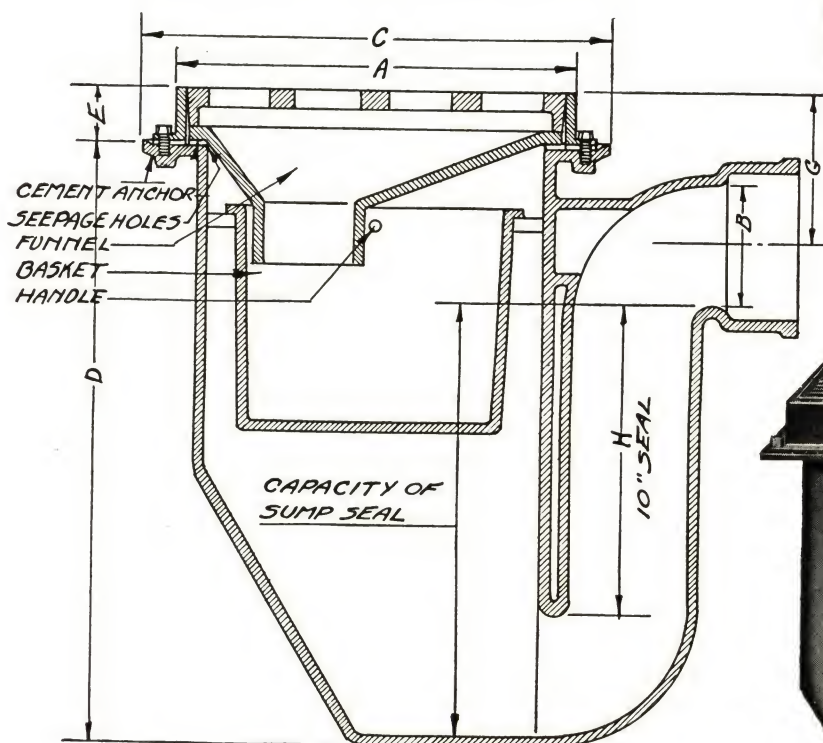
NO. 188 DRAIN AND TRAP COMBINED IN A SINGLE UNIT. RECOMMENDED FOR RESIDENCE GARAGES. INSIDE DEFLECTOR DIRECTS ALL DIRT INTO REMOVABLE BASKET. VISIBLE TRAP SEAL AND THREE INCH VENT CONNECTION.

BODY OF DRAIN IS CAST IRON, PAINTED OR GALVANIZED, WITH LATERAL FLANGE CAST TO BODY WHICH ANCHORS DRAIN SECURELY IN CEMENT SLAB.

STRAINER AND FRAME IS CAST IRON, PAINTED OR GALVANIZED. TOTAL AREA OF TOP, 155 SQUARE INCHES. STRAINER IS $13\frac{1}{2}$ " X $11\frac{1}{2}$ " WITH INLET AREA OF 33 SQUARE INCHES. CARRYING CAPACITY OF STRAINER, APPROXIMATELY 5 TONS. DEPTH OF TRAP SEAL, 10". OUTLET 4" HUB



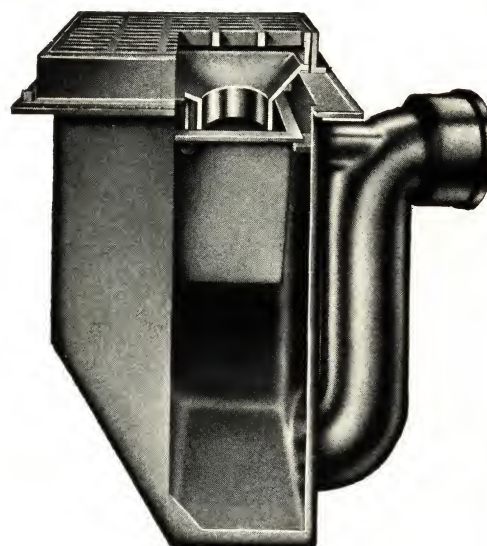
NO. 188



A	B	C	D	E	F	G	H
$13\frac{1}{2}$	4	$15\frac{3}{4}$	20	2	$11\frac{1}{2}$	$5\frac{1}{4}$	$10\frac{1}{2}$

NO. 188

CARRYING CAPACITY OF STRAINER APPROXIMATELY 5 TONS. CAST IRON DEFLECTOR, REMOVABLE BASKET-OVERFLOW TYPE.

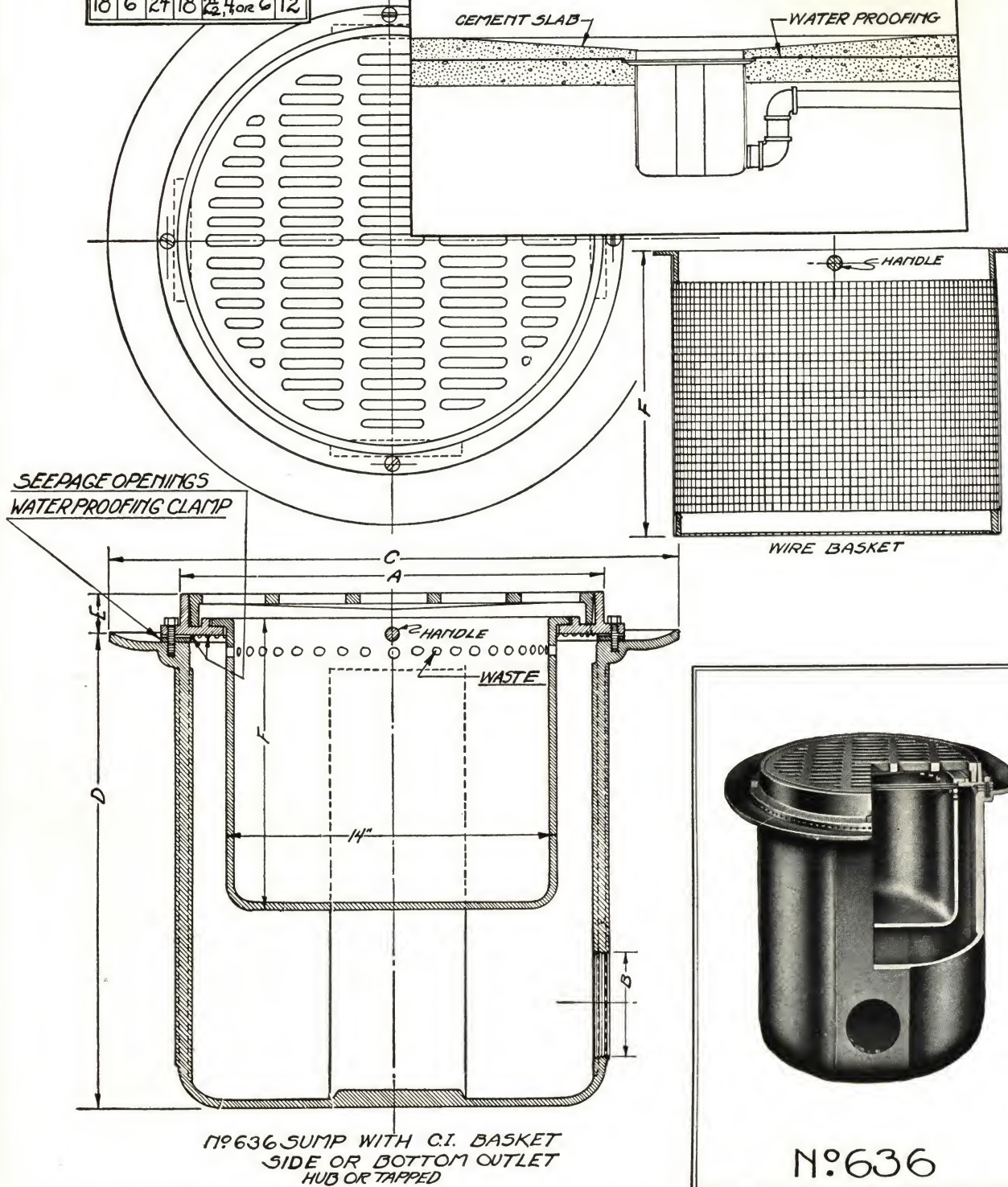


NO. 188

BOOSEY

CAST IRON SUMP SUSPENDED CONSTRUCTION

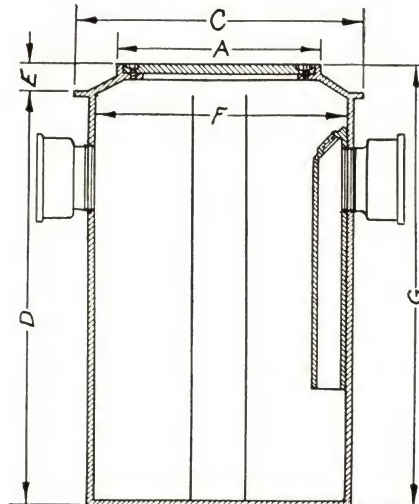
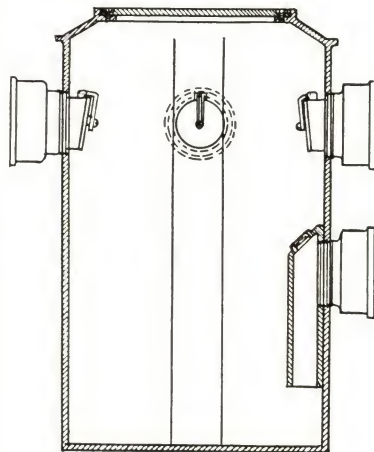
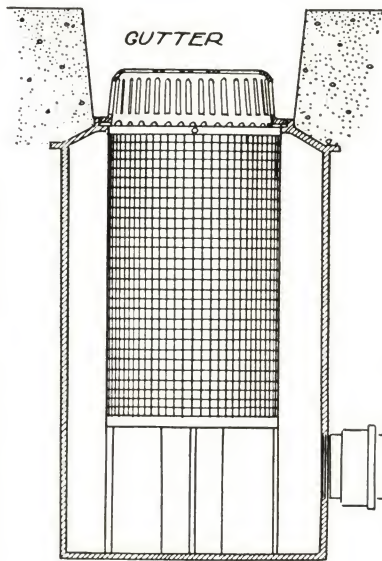
A	B	C	D	E	F
18	3	24	18	2 1/2, 4, or 6	12
18	4	24	18	2 1/2, 4, or 6	12
18	6	24	18	2 1/2, 4, or 6	12



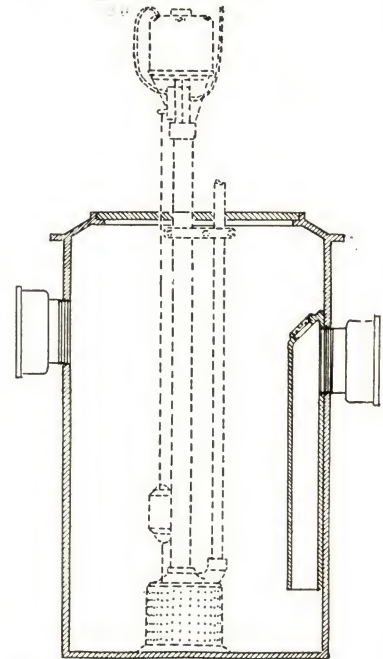
BOOSEY

BOOSEY'S CAST IRON SUMP

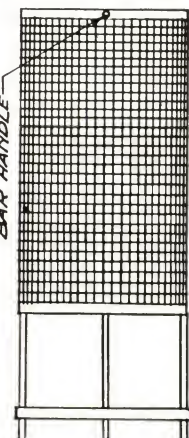
CAST WITH FOUR FLAT SIDES, PROVIDING MACHINE SPACE FOR TAPPING WASTE AND VENT CONNECTIONS IN FOUR DIRECTIONS AT ANY REQUIRED DISTANCE FROM FLOOR LINE.



A	C	D	E	F	G
15"	20"	28"	2"	18"	30"



ACCESSORIES TO NO. 635 SUMP



BASKET



TRAP-2, 3, OR 4" OUTLET WITH 1/2" CO.



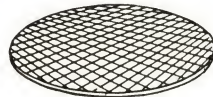
2, 3, OR 4" HUB



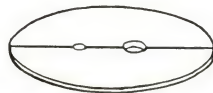
2, 3, OR 4" CHECK VALVE



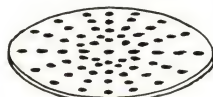
PRESSURE TIGHT COVER



SOLID COVER



PUMP COVER



STRAINER COVER

NO. 635 SUMP

LISTED BODY ONLY. ACCESSORIES AND TAPPINGS, TO SUIT REQUIREMENTS, ARE ADDITIONAL TO LIST.



NO. 635

BOOSEY

SEEPAGE SHOWER DRAIN AND TRAP WITH LEAD PAN CONNECTION

SERIES NO. 126
COMBINES FIVE NEW DRAINAGE FEATURES.

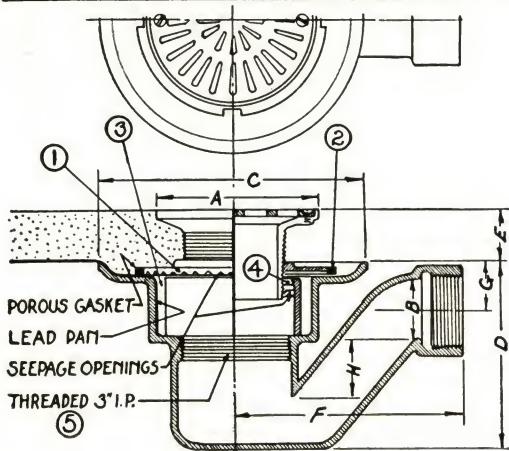
- NO. 1 BRONZE SEEPAGE PLATE PROVIDES NON-CORROSIVE SEEPAGE OPENINGS.
- NO. 2 A POROUS FIBER GASKET COVERING SEEPAGE OPENINGS PREVENTS THEM BEING CLOGGED WITH CEMENT WHEN FLOOR IS POURED.
- NO. 3 LEAD PAN CONNECTS TO TRAP BODY BY MEANS OF A LEAD, CALKED JOINT, GUARANTEEING AN ECONOMICAL AND WATER TIGHT CONNECTION.
- NO. 4 WATER TESTING OF PAN AND CONNECTIONS IS VERY SIMPLE. SCREW A PLUG INTO TRAP INLET, THEN FILL LEAD PAN WITH WATER.
- NO. 5 FOR ROUGH TEST AND PLUGGING DURING BUILDING CONSTRUCTION, TRAP IS INTERNALLY THREADED 3" IRON PIPE.

THIS DRAIN REQUIRES LESS VERTICAL SPACE AND COMBINES THE DESIRABLE FEATURES IN SHOWER DRAIN CONSTRUCTION WITH GREATER SEEPAGE AREA AND STRAINER ADJUSTMENT.

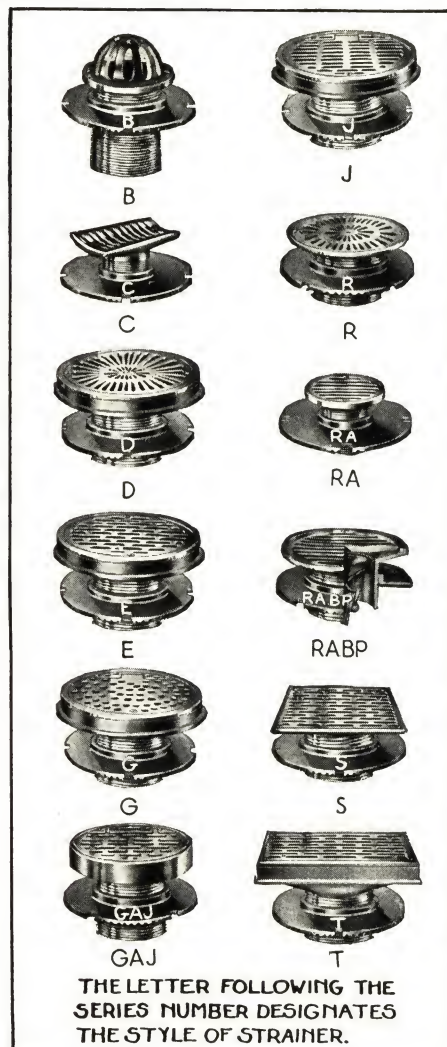
TRAP BODY CAST IRON, PAINTED OR GALVANIZED OR ALL BRONZE AND FURNISHED WITH ANY OF THE ADJUSTABLE STRAINERS SHOWN ON THIS PAGE.

STRAINER CHART

STRAINER STYLE	DIAMETER	TAIL PIECE TH'D.	STRAINER FAS. F. BODY	FINISH	TAIL PIECE LENGTH	AREA OF GRATE OPEN.
B	4½"	3"	SCREWS	STRAINERS FURNISHED IN POLISHED BRONZE, NICKEL, OR CHROME PLATED	4"	5½ sq. in.
C	2½x5"	2"	"		2"	4½ "
D	7"	3"	"		2"	10½ "
E	7"	3"	"		2"	10½ "
G	7"	3"	HINGED		2"	7 "
GAJ	6"	3"	"		2½"	8 "
J	7"	3"	"		2"	7½ "
R	6"	3"	SCREWS		2¼"	5½ "
RA	4"	2"	"		2"	4½ "
RA	5"	3"	"		2"	5½ "
RA	6"	3"	"		2¼"	6¼ "
RA	7"	3"	"		2¼"	12 "
RA-BP	6"	3"	"		2¼"	6½ "
S	6"	3"	"		2"	14 "
T	8x4½"	3"	"		2¼"	10½ "



NO. 126 SERIES



NO. 126 SERIES TRAP ROUGHING IN DIMENSIONS

SIZE	A	B	C	D	E	F	G	H
2" OUTLET	2"	9"	6"	8"	1½"	2"		
3" OUTLET	3"	9"	8"	adjustable	8"	2½"	3"	
4" OUTLET	4"	12"	11½"		10½"	2½"	2½"	



NO. 126-R

BOOSEY

SEEPAGE SHOWER AND FLOOR DRAIN WITH LEAD PAN CONNECTION

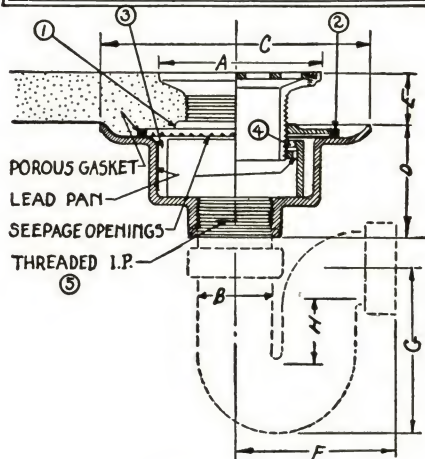
SERIES NO. 130
COMBINING FIVE NEW DRAINAGE FEATURES

- NO. 1 BRONZE SEEPAGE PLATE PROVIDES NON-CORROSIVE SEEPAGE OPENINGS.
- NO. 2 A POROUS FIBER GASKET COVERING SEEPAGE OPENINGS PREVENTS THEM BEING CLOGGED WITH CEMENT WHEN THE FLOOR IS POURED.
- NO. 3 LEAD PAN CONNECTS TO TRAP BODY BY MEANS OF A LEAD CALKED JOINT GUARANTEEING A WATER TIGHT AND ECONOMICAL CONNECTION.
- NO. 4 WATER TESTING OF PAN AND CONNECTIONS IS VERY SIMPLE, SCREW A PLUG INTO WASTE INLET THEN FILL LEAD PAN WITH WATER.
- NO. 5 FOR ROUGH TEST AND PLUGGING DURING BUILDING CONSTRUCTION SCREW PLUG INTO WASTE OUTLET.

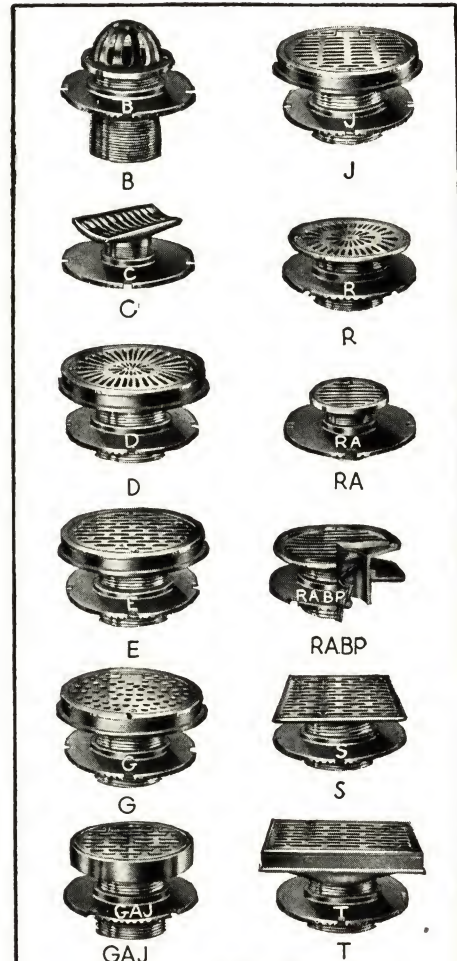
DRAIN BODY CAST IRON, PAINTED OR GALVANIZED, OR ALL BRONZE AND FURNISHED WITH ANY OF THE ADJUSTABLE STRAINERS SHOWN ON THIS PAGE.

STRAINER CHART

STRAINER STYLE	DIAMETER	TAIL PIECE TH'D	STRAINER FAS. TO BODY	FINISH	TAIL PIECE LENGTH	AREA OF GRATE OPEN.
B	4 1/2"	3"	SCREWS	STRAINERS FURNISHED IN POLISHED BRONZE, NICKEL, OR CHROME PLATED	4"	5 1/2 SQ. IN.
C	2 3/4 X 5"	2"	"		2"	4 1/8 " "
D	7"	3"	"		2"	10 1/2 " "
E	7"	3"	"		2"	10 7/8 " "
G	7"	3"	HINGED		2"	7 " "
GAJ	6"	3"	"		2 1/2"	8 " "
J	7"	3"	"		2"	7 1/2 " "
R	6"	3"	SCREWS		2 1/4"	5 3/4 " "
RA	4"	2"	"		2"	4 1/2 " "
RA	5"	3"	"		2"	5 1/2 " "
RA	6"	3"	"		2 1/4"	6 3/4 " "
RA	7"	3"	"		2 1/4"	12 " "
RA-BP	6"	3"	"		2 1/4"	6 3/4 " "
S	6"	3"	"		2"	14 " "
T	8 X 4 1/2"	3"	"		2 1/4"	10 1/2 " "



NO. 130 SERIES



THE LETTER FOLLOWING THE SERIES NUMBER DESIGNATES THE STYLE OF STRAINER.

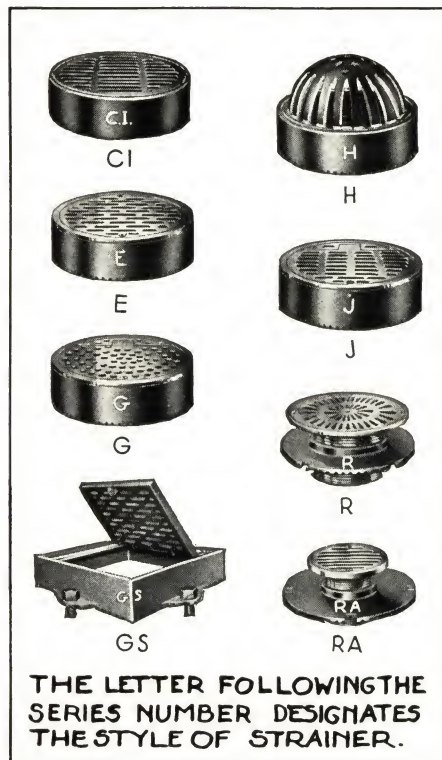
NO. 130 SERIES DRAIN ROUGHING IN DIMENSIONS								
SIZE	A	B	C	D	E	F	G	H
2" OUTLET	2"	9	4	4 1/2"	5 3/4"	5 3/4"	2	
3" OUTLET	3"	9	4	4 1/2"	8 1/2"	8	3	
4" OUTLET	4"	11	4 1/4"	10 1/2"	10	10	4	



NO. 130R

BOOSEY**SEEPAGE FLOOR DRAIN
TAPPED OUTLET****DIMENSION CHART**

PLATE NO.	OUTLET	STRAIN DIA.	AREA GRATE	A	B	C	D	E
133-C.I.	2	7	9	7	2	9	2 $\frac{1}{4}$	2
133-C.I.	3	7	9	7	3	9	3	2
133-C.I.	3	9	12	9	3	11	3	2
133-C.I.	4	9	12	9	4	11	3 $\frac{1}{4}$	2
133-C.I.	4	12	20	12	4	15	3 $\frac{1}{4}$	2
133-C.I.	6	12	20	12	6	15	3 $\frac{1}{4}$	2
133-C.I.	6	15	52	15	6	18	3 $\frac{1}{2}$	2
133-C.I.	8	15	52	15	8	18	3 $\frac{1}{2}$	2
133-E	2	7	10 $\frac{1}{2}$	7	2	9	2 $\frac{1}{4}$	2 $\frac{1}{2}$
133-E	3	7	10 $\frac{1}{2}$	7	3	9	3	2 $\frac{1}{2}$
133-E	3	9	15 $\frac{1}{2}$	9	3	11	3	2 $\frac{1}{2}$
133-E	4	9	15 $\frac{1}{2}$	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{2}$
133-G	2	7	7	7	2	9	2 $\frac{1}{4}$	2 $\frac{1}{2}$
133-G	3	7	7	7	3	9	3	2 $\frac{1}{2}$
133-G	3	9	11	9	3	11	3	2 $\frac{1}{2}$
133-G	4	9	11	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{2}$
133-GS	2	7	13	7	2	9	2 $\frac{1}{4}$	2
133-GS	3	7	13	7	3	9	3	2
133-GS	4	7	13	7	4	11	3 $\frac{1}{4}$	2
133-H	2	7	18	7	2	9	2 $\frac{1}{4}$	2
133-H	3	7	18	7	3	9	3	2
133-H	3	9	30	9	3	11	3	2
133-H	4	9	30	9	4	11	3 $\frac{1}{4}$	2
133-J	2	7	8	7	2	9	2 $\frac{1}{4}$	2 $\frac{1}{2}$
133-J	3	7	8	7	3	9	3	2 $\frac{1}{2}$
133-J	3	9	14	9	3	11	3	2 $\frac{1}{2}$
133-J	4	9	14	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{2}$
133-J	4	12	27 $\frac{1}{2}$	12	4	15	3 $\frac{1}{4}$	2 $\frac{1}{2}$
133-R	2	6	5 $\frac{3}{4}$	7	2	9	2 $\frac{1}{4}$	ADJ.
133-R	3	6	5 $\frac{3}{4}$	7	3	9	3	ADJ.
133-RA	2	4	4 $\frac{1}{2}$	4	2	9	2 $\frac{1}{4}$	ADJ.
133-RA	3	5	5 $\frac{1}{2}$	5	3	9	3	ADJ.
133-RA	3	6	6 $\frac{3}{4}$	6	3	11	3	ADJ.
133-RA	4	7	12	7	4	11	3 $\frac{1}{4}$	ADJ.
133-RA	4	7	12	7	4	15	3 $\frac{1}{4}$	ADJ.

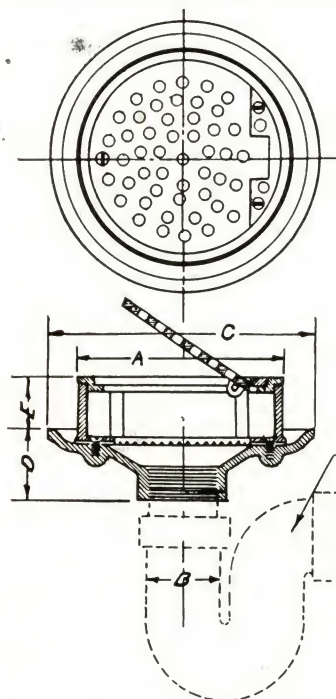


SERIES NO. 133

SHALLOW DRAINS SIMPLE IN CONSTRUCTION WITH CAST IRON BODIES QUICKLY ASSEMBLED TO MEET ANY SPECIAL CONDITION AND MAY BE SAFELY USED IN ORDINARY CEMENT FLOOR CONSTRUCTION WITHOUT ADDITIONAL FLASHING, DEPENDING ENTIRELY ON THE SEEPAGE PAN CAST TO THE BODY OF DRAIN HEAD. THIS PAN ALSO ACTS AS AN ANCHOR SECURING THE DRAIN HEAD PERMANENTLY IN THE CEMENT SLAB, PREVENTING EXPANSION, CONTRACTION, OR TRAFFIC WORKING IT LOOSE.

DRAIN FURNISHED WITH ROUND OR SQUARE STRAINERS IN IRON OR BRONZE. ADAPTABLE FOR USE IN STORES, HOTELS, OFFICE BUILDINGS OR ANY PLACE WHERE A WELL DESIGNED, NOT TOO CONSPICUOUS, DRAIN IS REQUIRED.

BODY OF DRAIN IRON PAINTED OR GALVANIZED OR ALL BRONZE. MADE IN FIVE OUTLET SIZES; 2, 3, 4, 6 AND 8".



N°133-SERIES

DEEP SEAL TRAP
FURNISHED WHEN
SPECIFIED



ANY DRAIN CAN BE FURNISHED WITH IRON OR BRASS INTERMEDIATE STRAINERS AT ADDITIONAL COST.



N°133-G

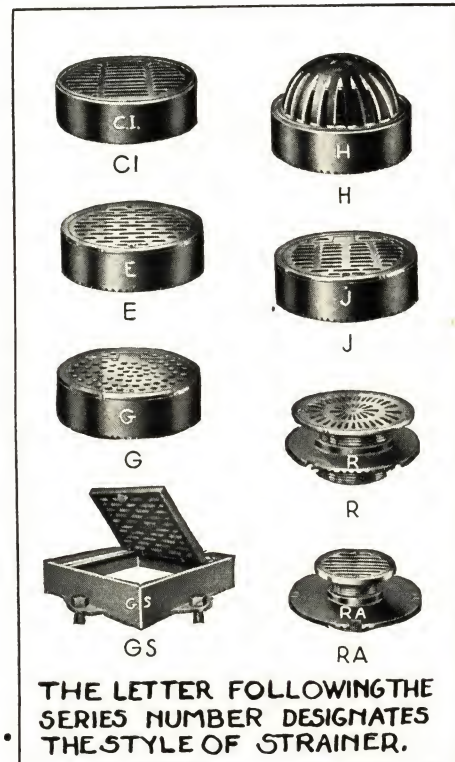
BOOSEY

SEEPAGE FLOOR DRAIN

HUB OUTLET

DIMENSION CHART

PLATE NO.	HUB OUTLET	STRAIN DIA.	AREA GRATE	A	B	C	D	E
134-C.I.	2	7	9	7	2	9	2 $\frac{1}{2}$	2
134-C.I.	3	7	9	7	3	9	3	2
134-C.I.	3	9	12	9	3	11	3	2
134-C.I.	4	9	12	9	4	11	3 $\frac{1}{2}$	2
134-C.I.	4	12	20	12	4	15	3 $\frac{1}{2}$	2
134-C.I.	6	12	20	12	6	15	3 $\frac{1}{2}$	2
134-C.I.	6	15	52	15	6	18	3 $\frac{1}{2}$	2
134-C.I.	8	15	52	15	8	18	3 $\frac{1}{2}$	2
134-E	2	7	10 $\frac{1}{8}$	7	2	9	2 $\frac{1}{2}$	2 $\frac{1}{8}$
134-E	3	7	10 $\frac{1}{8}$	7	3	9	3	2 $\frac{1}{8}$
134-E	3	9	15 $\frac{1}{16}$	9	3	11	3	2 $\frac{1}{8}$
134-E	4	9	15 $\frac{1}{16}$	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{8}$
134-G	2	7	7	7	2	9	2 $\frac{1}{4}$	2 $\frac{1}{8}$
134-G	3	7	7	7	3	9	3	2 $\frac{1}{8}$
134-G	3	9	11	9	3	11	3	2 $\frac{1}{8}$
134-G	4	9	11	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{8}$
134-GS	2	7	13	7	2	9	2 $\frac{1}{4}$	2
134-GS	3	7	13	7	3	9	3	2
134-GS	4	7	13	7	4	11	3 $\frac{1}{4}$	2
134-H	2	7	18	7	2	9	2 $\frac{1}{2}$	2
134-H	3	7	18	7	3	9	3	2
134-H	3	9	30	9	3	11	3	2
134-H	4	9	30	9	4	11	3 $\frac{1}{4}$	2
134-J	2	7	8	7	2	9	2 $\frac{1}{4}$	2 $\frac{1}{8}$
134-J	3	7	8	7	3	9	3	2 $\frac{1}{8}$
134-J	3	9	14	9	3	11	3	2 $\frac{1}{8}$
134-J	4	9	14	9	4	11	3 $\frac{1}{4}$	2 $\frac{1}{8}$
134-J	4	12	27 $\frac{1}{2}$	12	4	15	3 $\frac{1}{2}$	2 $\frac{1}{8}$
134-R	2	6	5 $\frac{3}{4}$	7	2	9	2 $\frac{1}{4}$	ADJ.
134-R	3	6	5 $\frac{3}{4}$	7	3	9	3	ADJ.
134-RA	2	4	4 $\frac{1}{2}$	4	2	9	2 $\frac{1}{4}$	ADJ.
134-RA	3	5	5 $\frac{1}{2}$	5	3	9	3	ADJ.
134-RA	3	6	6 $\frac{3}{4}$	6	3	11	3	ADJ.
134-RA	4	7	12	7	4	11	3 $\frac{1}{2}$	ADJ.
134-RA	4	7	12	7	4	15	3 $\frac{1}{2}$	ADJ.



SERIES NO. 134

SHALLOW DRAIN HEAD, WITH HUB OUTLET CAST TO BODY OF DRAIN. PAINTED OR GALVANIZED.

EASILY ADJUSTED TO FLOOR LINE AND QUICKLY ASSEMBLED TO MEET SPECIAL CONDITIONS.

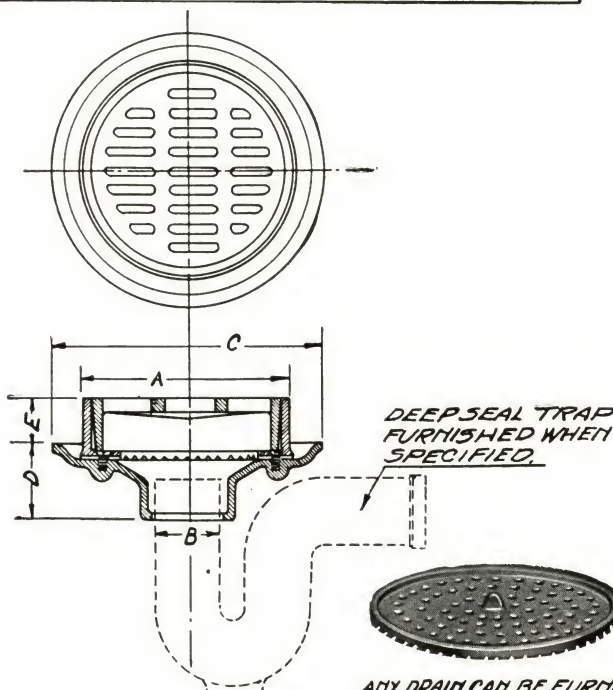
CAN BE SAFELY INSTALLED IN ORDINARY CEMENT FLOOR, WITHOUT ADDITIONAL FLASHING, DEPENDING ENTIRELY UPON THE SEEPAGE PAN, CAST TO BODY OF DRAIN HEAD, TO PREVENT SEEPAGE DRIPPING TO FLOOR BELOW.

THE CAST SEEPAGE PAN ALSO ACTS AS AN ANCHOR, SECURING THE DRAIN PERMANENTLY IN THE CEMENT SLAB, PREVENTING EXPANSION, CONTRACTION OR HEAVY TRAFFIC WORKING IT LOOSE.

DRAIN FURNISHED WITH ROUND OR SQUARE STRAINERS, IN IRON OR BRONZE AND ARE ADAPTABLE FOR INSTALLATION WHERE EVER SOIL PIPE IS USED FOR DRAINAGE.

THE DRAIN STRAINERS ARE OF A WEIGHT TO WITHSTAND ABUSE AND ARE REMOVABLE, PROVIDING EASY ACCESS TO TRAP FOR CLEANING.

MADE IN SIX OUTLET SIZES; 2, 3, 4, 5, 6 & 8".



N°134 SERIES

ANY DRAIN CAN BE FURNISHED WITH IRON OR BRASS INTERMEDIATE STRAINERS AT ADDITIONAL COST.



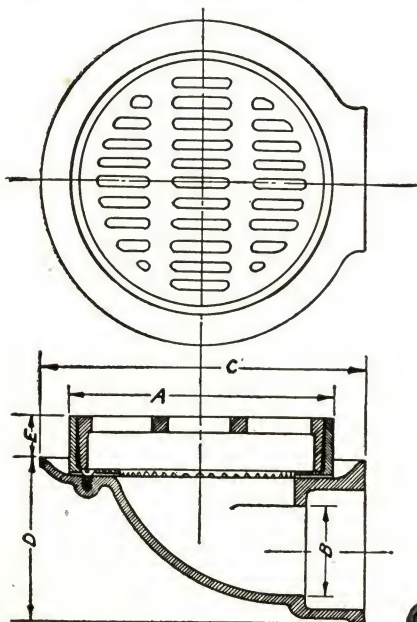
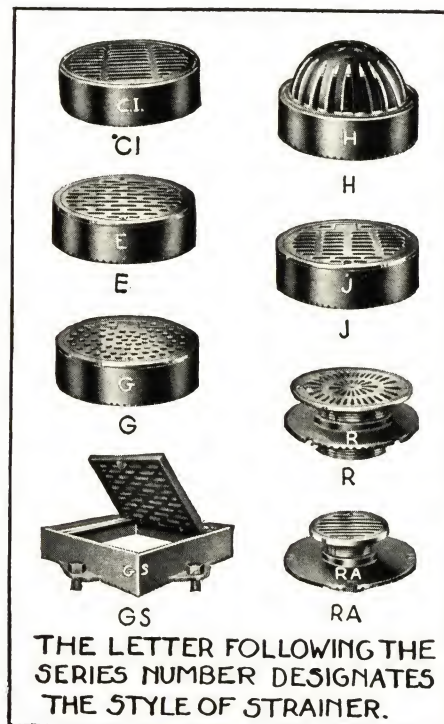
N°134-C.I.

BOOSEY

SEEPAGE FLOOR DRAIN SIDE HUB OUTLET

DIMENSION CHART

PLATE NO.	HUB OUTLET	STRAIN. DIA.	AREA GRATE	A	B	C	D	E
136 C.I.	3"	7	9	7	3	11	5½	2
136 C.I.	3"	9	12	9	3	11	5½	2
136 C.I.	4"	7	9	7	4	11	6½	2
136 C.I.	4"	9	12	9	4	11	6½	2
136 E	3"	7	10½	7	3	11	5½	2½
136 E	3"	9	15½	9	3	11	5½	2½
136 E	4"	7	10½	7	4	11	6½	2½
136 E	4"	9	15½	9	4	11	6½	2½
136 G	3"	7	7	7	3	11	5½	2½
136 G	3"	9	11	9	3	11	5½	2½
136 G	4"	7	7	7	4	11	6½	2½
136 G	4"	9	11	9	4	11	6½	2½
136 GS	3"	7	13	7	3	11	5½	2
136 GS	4"	7	13	7	4	11	6½	2
136 H	3"	7	18	7	3	11	5½	2
136 H	3"	9	30	9	3	11	5½	2
136 H	4"	7	18	7	4	11	6½	2
136 H	4"	9	30	9	4	11	6½	2
136 J	3"	7	8	7	3	11	5½	2½
136 J	3"	9	14	9	3	11	5½	2½
136 J	4"	7	8	7	4	11	6½	2½
136 J	4"	9	14	9	4	11	6½	2½
136 R	3"	6	5½	6	3	11	5½	ADJ.
136 R	4"	6	5½	6	4	11	6½	ADJ.
136 RA	3"	4	4½	4	3	11	5½	ADJ.
136 RA	3"	5	5½	5	3	11	5½	ADJ.
136 RA	4"	6	6½	6	4	11	6½	ADJ.
136 RA	4"	7	12	7	4	11	6½	ADJ.



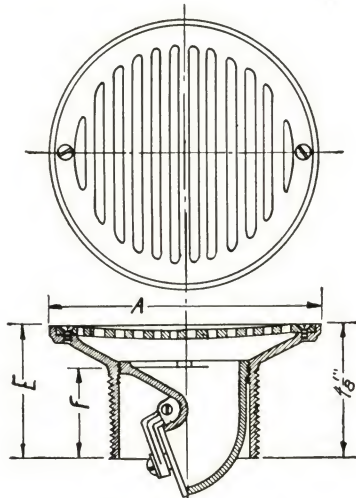
NO. 136 SERIES

ANY DRAIN CAN BE FURNISHED WITH IRON OR BRASS INTERMEDIATE STRAINERS AT ADDITIONAL COST.

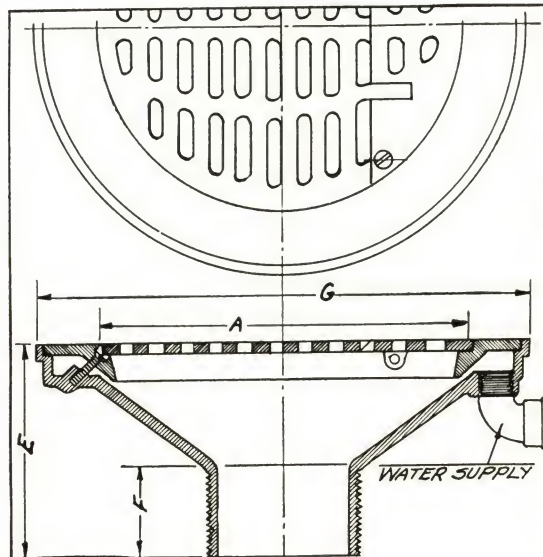
NO. 136 HORIZONTAL DISCHARGE SEEPAGE DRAIN WITH HUB OUTLET. BODY OF DRAIN CAST IRON, PAINTED OR GALVANIZED. STRAINERS, VARIOUS STYLES AS ILLUSTRATED CAST IRON, PAINTED OR GALVANIZED OR BRONZE METAL POLISHED, NICKEL OR CHROMIUM PLATED. HUB OUTLETS 3" OR 4".



NO. 136-C.I.

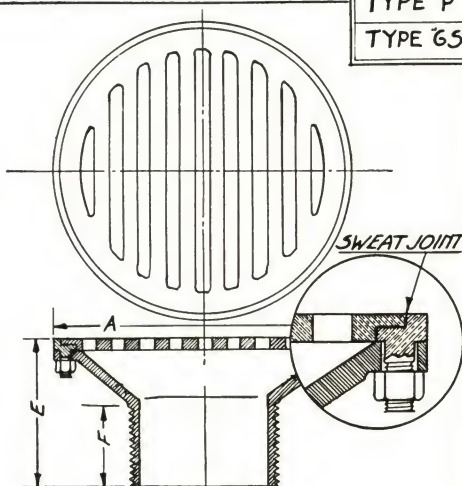
BOOSEY**SPECIAL DRAIN HEADS****TYPE-RA-BP**

BACK PRESSURE DRAIN HEAD. ALL BRONZE, NICKEL OR CHROMIUM PLATED. RECOMMENDED FOR INSTALLATIONS WHERE INTERMITTENT USE OF DRAIN MAY CAUSE TRAP TO LOOSE ITS SEAL FROM EVAPORATION. THE SWING CHECK, BEING ALWAYS SET IN A CLOSED POSITION, PREVENTS FREE FLOW OF SEWER AIR INTO BUILDING. ENTIRE CHECK VALVE ASSEMBLY CAN BE REMOVED THROUGH STRAINER OPENING.

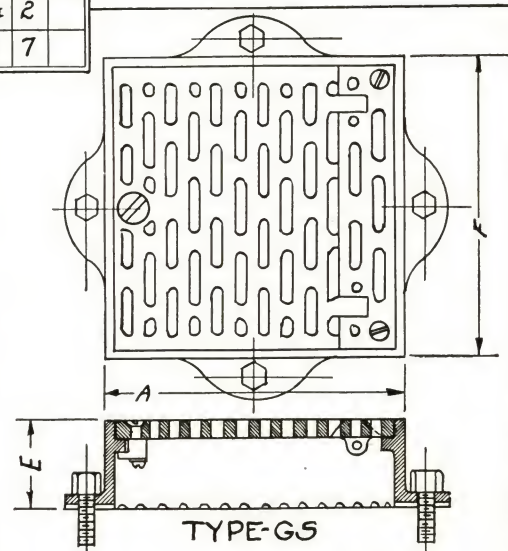
**TYPE-K**

FLUSHING RIM DRAIN HEAD. ALL BRONZE. RECOMMENDED FOR HOSPITALS, SANITARIUMS, MORGUES AND LABORATORIES. CAN BE USED WITH OR WITHOUT LEAD PAN CONNECTION, DEPENDING ON INSTALLATION REQUIREMENTS. TOP, WITH HINGED STRAINER AND FLUSHED SURFACE, ALL BRONZE, POLISHED OR PLATED. EASILY ACCESSIBLE FOR CLEANING.

TYPE	A	E	F	G
TYPE "RA-BP"	6	3	2 1/4	
TYPE "K"	8	4 3/4	2 1/2	10 3/4
TYPE "P"	7	3 1/4	2	
TYPE "GS"	7	2	7	

**TYPE-P**

PRISON DRAIN HEAD. A LOOSE DRAIN STRAINER IS A DANGEROUS WEAPON IN THE HANDS OF A PRISONER. THEREFORE, WE RECOMMEND THAT STRAINERS BE FASTENED TO DRAIN HEADS, IN CELLS AND CORRIDORS, WITH A SWEAT SOLDERED JOINT. THIS PERMITS REMOVAL OF STRAINER ONLY BY USE OF A TORCH. MADE IN FIVE SIZES 4", 5", 6", 7" & 9".

**TYPE-GS**

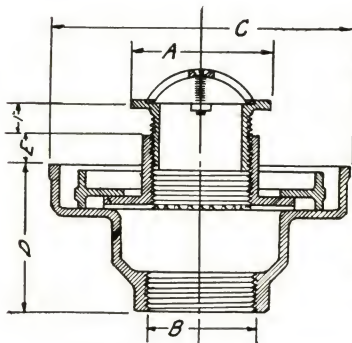
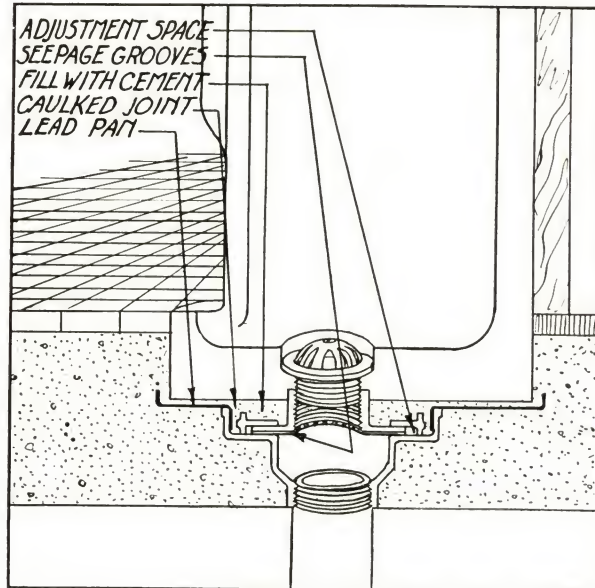
SQUARE DRAIN HEAD WITH HINGED STRAINER HAVING LOCKING DEVICE. FURNISHED IN CAST IRON, PAINTED OR GALVANIZED OR ALL BRONZE, POLISHED OR PLATED.

ALL OF THE ABOVE DRAIN HEADS CAN BE FURNISHED WITH DRAIN BODIES, SERIES NO'S. 126-130-133-134 & 136.

BOOSEY

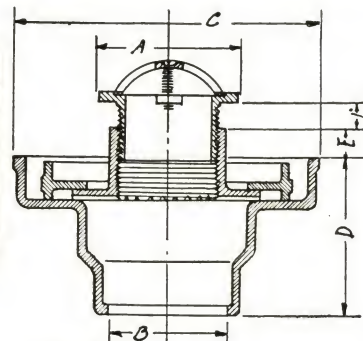
ADJUSTABLE SEEPAGE URINAL DRAIN

NO. 135 URINAL SEEPAGE DRAIN PROVIDES ONE AND ONE HALF INCH HORIZONTAL ADJUSTMENT IN ANY DIRECTION BY MERELY SLIDING INLET THE REQUIRED DISTANCE. THE HORIZONTAL ADJUSTMENT COMBINED WITH THE VERTICAL TAIL PIECE ADJUSTMENT LESSENS THE INSTALLATION COST AND INSURES PERMANENT WATER TIGHT CONSTRUCTION. THIS DRAIN IS ALSO PROVIDED WITH SEEPAGE OPENINGS AND LEAD PAN CONNECTION, THE LATTER BEING CAULKED INTO RAGLET FORMED AROUND THE OUTER RIM OF DRIP PAN. BODY OF DRAIN IS CAST IRON, PAINTED OR GALVANIZED. OUTLET 3" HUB OR TAPPED. TAIL PIECE AND SEEPAGE PLATE ARE BRONZE METAL. STRAINERS ARE BRONZE, EITHER FLAT OR BEEHIVE, POLISHED OR PLATED, ALSO FURNISHED IN PORCELAIN, EITHER DISC OR STRAINER TYPE. SHRINKAGE IN THE CEMENT FLOOR SLAB OFTEN DEVELOPES A CRACK AT THE JUNCTION OF FLOOR TO URINAL. IT IS GOOD ENGINEERING PRACTICE TO EXTEND THE LEAD PAN UNDER FLOOR TYPE URINALS ONE INCH BEYOND THE URINAL BASE.

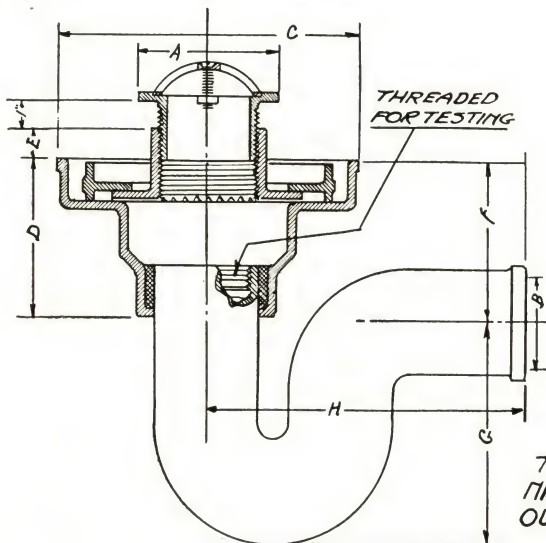


No. 135-TAPPED OUTLET

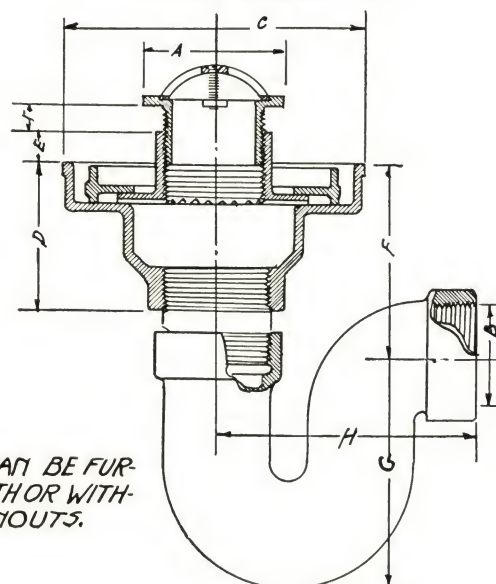
Nº	A	B	C	D	E	F	G	H
135	4 1/8	2" TAP	10	5	1 1/4			
135	4 1/8	3" "	10	5	1 1/4			
135	4 1/8	3" HUB	10	5 1/2	1 1/4			
135-106	4 1/8	3" SPKG	10	5 1/2	1 1/4	5 3/4	8	11 1/2
135-70	4 1/8	2" TAP	10	5	1 1/4	6	5 1/2	5 3/4
135-70	4 1/8	3" TAP	10	5	1 1/4	6 1/2	8	8 1/2



No. 135-HUB OUTLET



No. 135-106



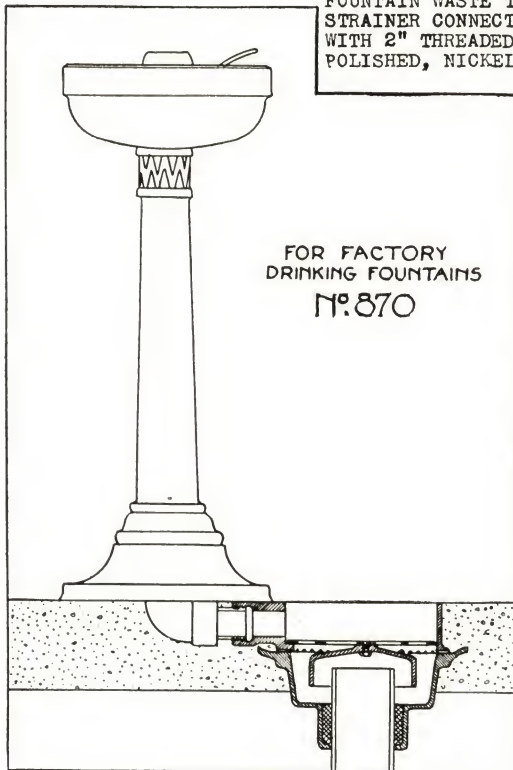
No. 135-70

BOOSEY

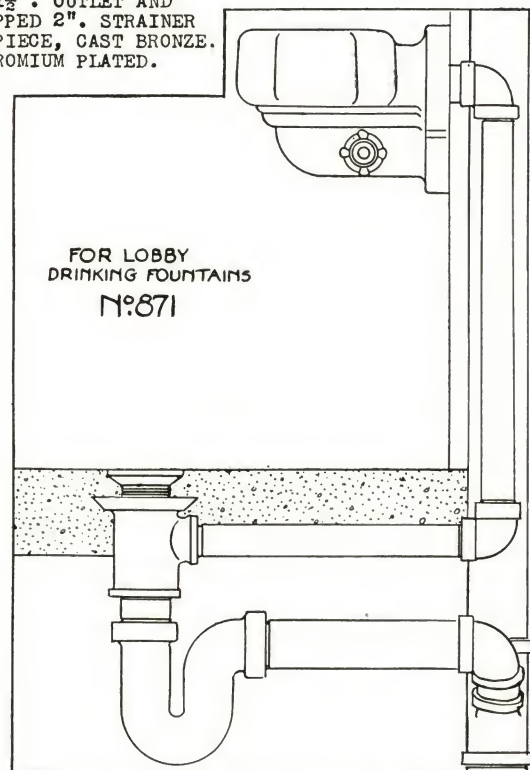
DRINKING FOUNTAIN DRAINS

NO. 870 FACTORY DRINKING FOUNTAIN AND SEEPAGE FLOOR DRAIN WITH TRAP COMBINED IN A SINGLE UNIT. WASTE FROM FOUNTAIN PASSES OVER AND THROUGH FLOOR DRAIN STRAINER KEEPING IT FLUSHED CLEAN AND ASSURING A PERMANENT SEAL IN TRAP. BODY OF DRAIN WITH INTEGRAL SEEPAGE PAN AND CEMENT ANCHOR, CAST IRON, PAINTED OR GALVANIZED. SIDE CONNECTION FOR FOUNTAIN WASTE TAPPED $1\frac{1}{2}$ ". DRAIN OUTLET 3" HUB.

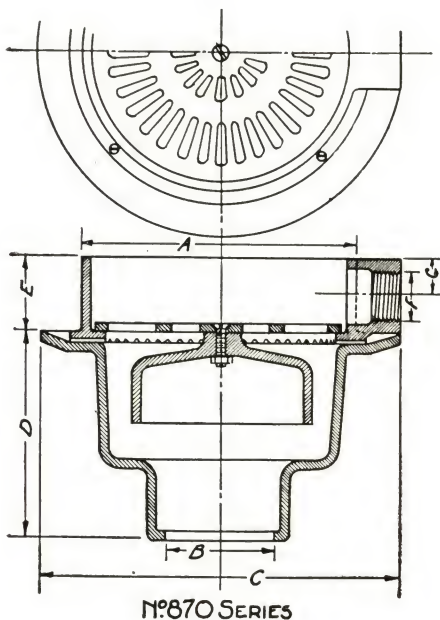
NO. 871 WALL DRINKING FOUNTAIN AND SEEPAGE FLOOR DRAIN COMBINED IN A SINGLE UNIT. A NEAT, SERVICEABLE AND INCONSPICUOUS DOUBLE INLET DRAIN DESIGNED TO SERVE AS WASTE CONNECTION FROM FOUNTAIN AND SEEPAGE FLOOR DRAIN FOR LOBBIES AND CORRIDORS. BODY OF DRAIN, WITH INTEGRAL SEEPAGE PAN AND CEMENT ANCHOR, CAST IRON, PAINTED OR GALVANIZED. SIDE INLET FOR FOUNTAIN WASTE TAPPED $1\frac{1}{2}$ ". OUTLET AND STRAINER CONNECTION TAPPED 2". STRAINER WITH 2" THREADED TAIL PIECE, CAST BRONZE. POLISHED, NICKEL OR CHROMIUM PLATED.



FOR FACTORY
DRINKING FOUNTAINS
N^o 870

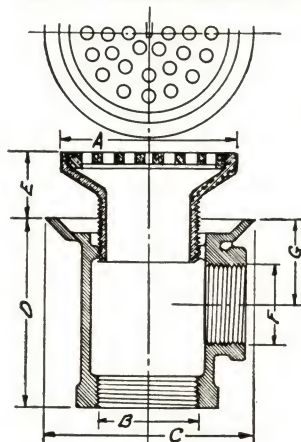


FOR LOBBY
DRINKING FOUNTAINS
N^o 871

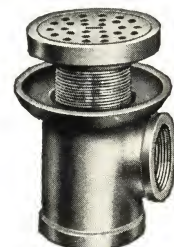


N^o 870 SERIES

N ^o	A	B	C	D	E	F	G
870	9	3	12	7	2½	1½	1¼
871	4	2	4¾	4¾	ADJ.	1½	2



N^o 871 SERIES



N^o 871

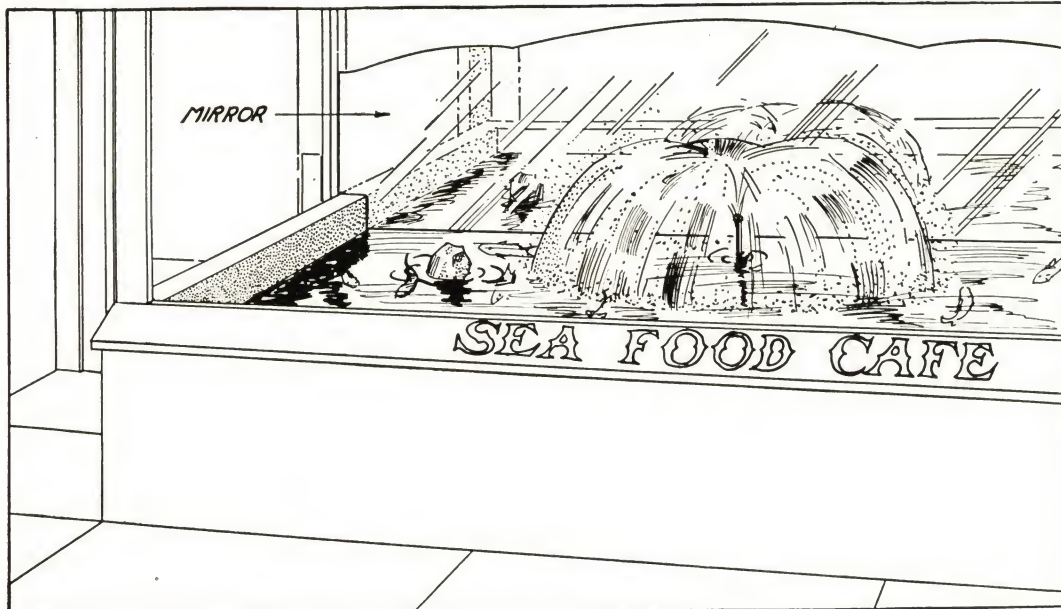


N^o 870

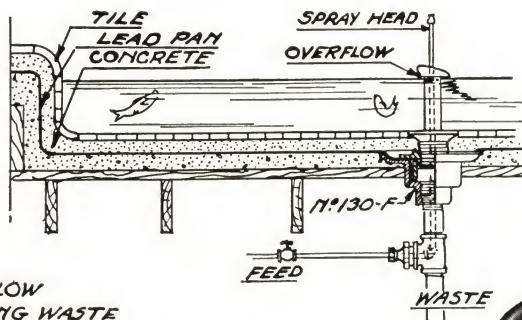
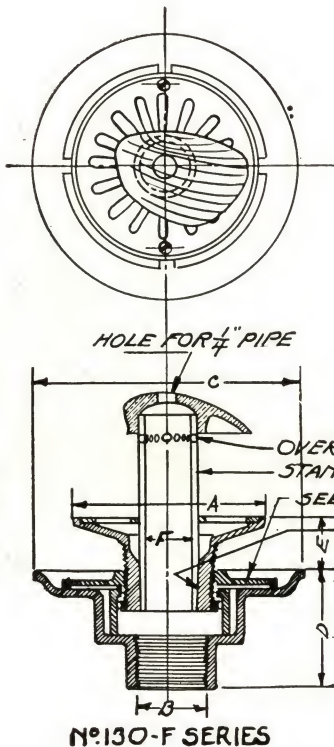
BOOSEY

DRAIN FOR WINDOW AQUARIUM

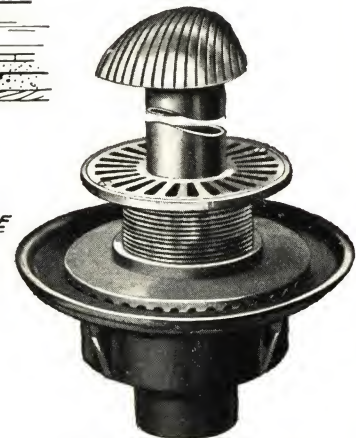
NO. 130-F AQUARIUM DRAIN. ADAPTABLE FOR INSIDE FOUNTAIN AQUARIUMS. RELIABLE CONSTRUCTION AT MINIMUM INSTALLATION COST. THIS UNIT SERVES FIVE PURPOSES. (1) LEAD PAN CAULKS TO DRAIN BODY WHICH IS PROVIDED WITH SEEPAGE OPENINGS TO PREVENT LEAKS THROUGH BOTOM OF AQUARIUM. (2) STRAINER, THROUGH WHICH STANDING WASTE RISES, ACTS AS BOTTOM DRAIN FOR EMPTYING AQUARIUM. (3) STANDING WASTE, PROVIDED WITH OVERFLOW OPENINGS, REGULATES WATER LINE IN AQUARIUM AND IS CONNECTED TO DRAIN WITH GROUND JOINT, EASILY REMOVABLE WHEN AQUARIUM IS TO BE DRAINED. (4) WATER SUPPLY CONNECTION, MADE THROUGH STANDING WASTE, EXTENDS THROUGH OPENING IN ORNAMENTAL TOP. (5) STRAINER, ADJUSTABLE FOR VARYING THICKNESSES OF CEMENT IN AQUARIUM BOTTOM. BODY OF DRAIN CAST IRON, PAINTED OR GALVANIZED. STANDING WASTE, $1\frac{1}{2}$ " BRASS PIPE. ALL OTHER PARTS CAST BRONZE. ALL EXPOSED SURFACES POLISHED, NICKEL OR CHROMIUM PLATED. OUTLET SIZES 2', 3" AND 4".



SEEPAGE DRAIN WITH LEAD PAN,
OVERFLOW AND FOUNTAIN CONNECTION
FOR WINDOW AQUARIUM.



A	B	C	D	E	F
6	2	9	$4\frac{1}{2}$	$1-2$	$1\frac{1}{2}$
6	3	9	$4\frac{1}{2}$	$1-2$	$1\frac{1}{2}$
6	4	11	$4\frac{1}{2}$	$1-2$	$1\frac{1}{2}$

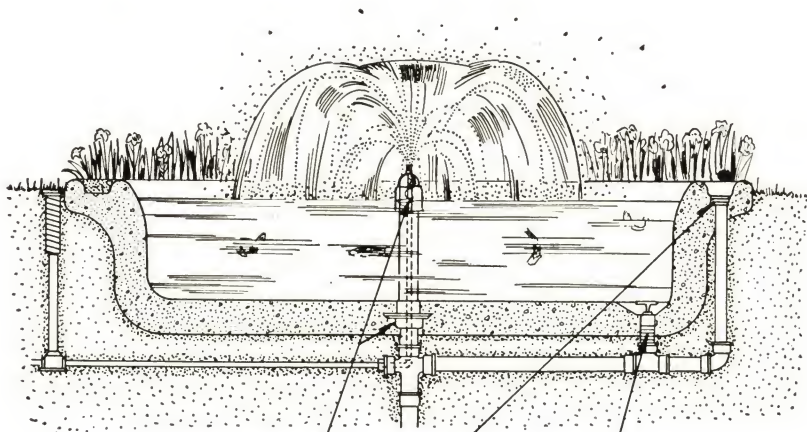


NO. 130-F

BOOSEY

YARD FOUNTAIN DRAIN

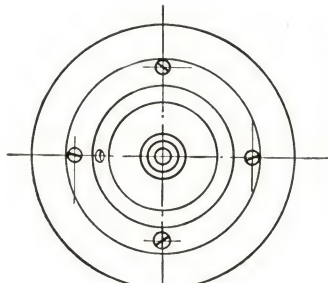
NO. 134 F.O. YARD FOUNTAIN DRAIN. BODY OF DRAIN CAST IRON, PAINTED OR GALVANIZED, WITH FLANGE ANCHOR AND HUB OUTLET WITH 3" THREADED EXTENSION TO FLOOR LINE. THE EXTENSION FROM FLOOR LINE TO OVERFLOW HEAD MAY BE EITHER GALVANIZED OR BRASS PIPE. FITTED WITH CAST IRON OR POLISHED BRONZE OVERFLOW HEAD WITH OPENING IN TOP FOR WATER SUPPLY PIPE TO WHICH THE BRASS SPRAY HEAD IS CONNECTED. IN CONNECTION WITH THE WASTE PIPING WE RECOMMEND THE NO. 804-4X8" CLEANOUT WITH "T" HANDLE PLUG FOR DRAINING FOUNTAIN AND WHEN LILY GUTTERS ARE CONSTRUCTED IN FOUNTAIN RIM, THE NO. 965 GUTTER DRAIN HEAD, HUB OUTLET.



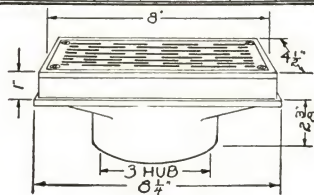
NO 134-FO
FOUNTAIN SUPPLY AND
OVERFLOW DRAIN

NO 965
GUTTER
DRAIN

NO 804
4X8" CLEANOUT
WITH T-HANDLE
PLUG

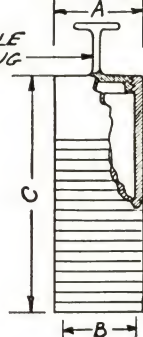


NO	A	B	C	D	E	F
134-FO	4 3/4	2	9	3 1/2	2 1/4	6
134-FO	4 3/4	3	9	3 1/2	2 1/4	6
134-FO	4 3/4	4	11	3 1/2	2 1/4	6

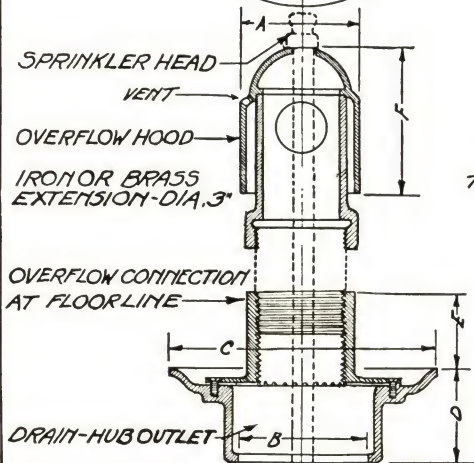


NO 965
GUTTER DRAIN

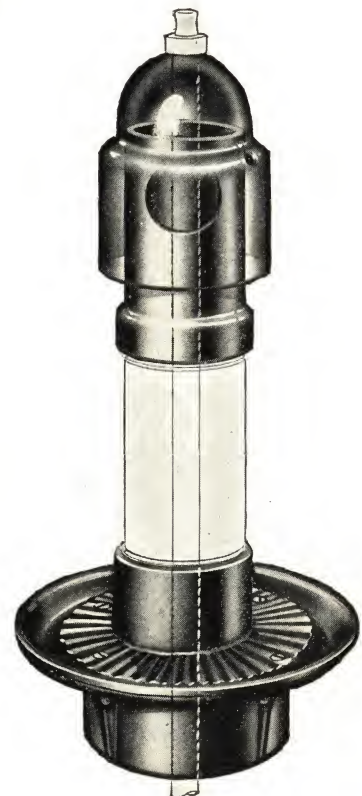
T-HANDLE
PLUG



NO 804 4X8" CLEANOUT
WITH T-HANDLE
PLUG



NO 134 FO FOUNTAIN
SUPPLY AND OVERFLOW DRAIN



NO 134-FO

BOOSEY

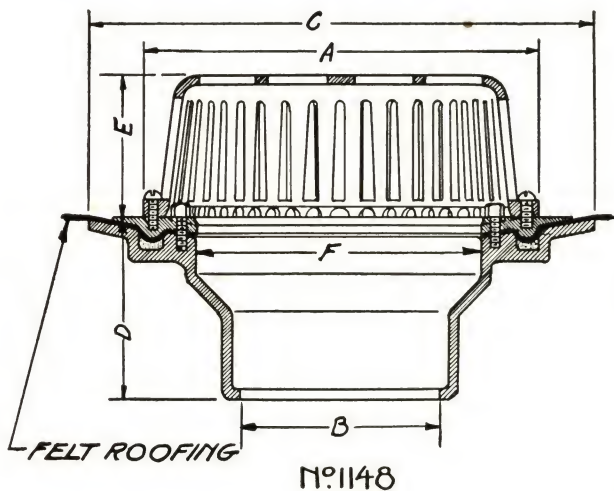
CAST IRON ROOF DRAINS FOR FELT OR METAL FLASHING

ROOF SUMP NO. 1148. CAST IRON OR BRASS. MAY BE USED WITH EITHER FELT OR METAL ROOFING. ALL CONNECTIONS ARE VISIBLE AND CONVENIENT TO INSPECT. THE SHALLOW, SELF CLEANING BOWL WILL NOT COLLECT AND HOLD DIRT. STRAINER EASILY REMOVABLE WITHOUT DISTURBING OTHER CONNECTIONS. THE SUMP IS AN EFFICIENT, NON-FREEZING AND PERMANENT RAIN CONDUCTOR ROOF CONNECTION.

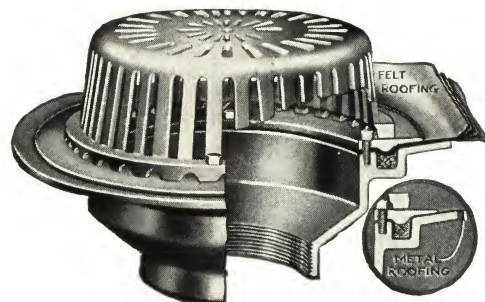
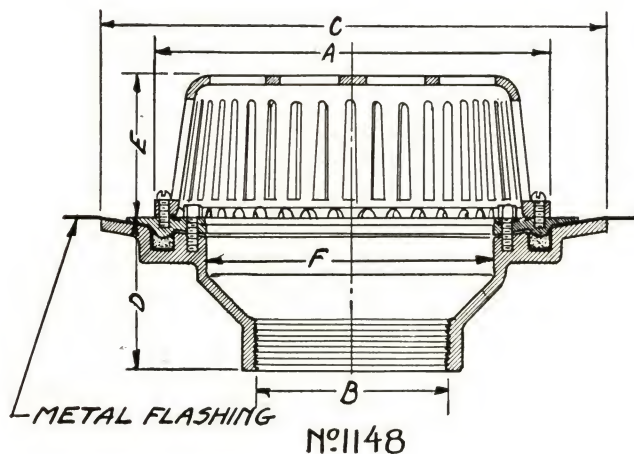
METAL ROOF CONNECTION TO SUMP IS MADE BY TURNING THE METAL DOWN INTO RAGLET CAST AROUND SUMP INLET AND CAULKING WITH LEAD OR BY FILLING RAGLET WITH ROOFING CEMENT THEN COVERING THE CONNECTION WITH THE UPPER CAST IRON FLANGE, DRAWN SECURELY TO PLACE WITH BOLTS.

FELT ROOF CONNECTION TO SUMP IS MADE BY MOPPING THE LOWER FLANGE AND FILLING RAGLET WITH ROOFING PITCH AND THEN PLACING THE FELTS OVER FLANGE. AN EXTENSION RING, CAST TO UNDER SIDE OF UPPER FLANGE, FORCES ROOFING FELTS DOWN INTO THE RAGLET WHEN FLANGE IS BOLTED IN PLACE. AN EASILY CONSTRUCTED, FLANGED AND SEALED WATER TIGHT CONNECTION.

THE SUMP IS PROVIDED WITH DOME GUARD, FIVE INCHES IN HEIGHT, OF GREATER DIAMETER THAN SUMP INLET. THUS IS PROVIDED MORE INLET AREA THROUGH STRAINER AND AN OUTER GUARD TO PREVENT FOREIGN SUBSTANCES ENTERING THE DOWN SPOUT LINE.



Nº	OUTLET	GRATE AREA	A	B	C	D	E	F
1148	3" TAP	45 ^{sq. in.}	9	3	13	5	5	6 ¹ / ₈
1148	3" HUB	45 ["]	9	3	13	6	5	6 ¹ / ₈
1148	4" TAP	45 ["]	9	4	13	5	5	6 ¹ / ₈
1148	4" HUB	45 ["]	9	4	13	6	5	6 ¹ / ₈
1148	4" TAP	77 ["]	13 ¹ / ₂	4	17 ¹ / ₄	5	4 ³ / ₄	10 ¹ / ₄
1148	4" HUB	77 ["]	13 ¹ / ₂	4	17 ¹ / ₄	6	4 ³ / ₄	10 ¹ / ₄
1148	5" TAP	77 ["]	13 ¹ / ₂	5	17 ¹ / ₄	5 ¹ / ₄	4 ³ / ₄	10 ¹ / ₄
1148	5" HUB	77 ["]	13 ¹ / ₂	5	17 ¹ / ₄	6 ¹ / ₄	4 ³ / ₄	10 ¹ / ₄
1148	6" TAP	77 ["]	13 ¹ / ₂	6	17 ¹ / ₄	5 ¹ / ₄	4 ³ / ₄	10 ¹ / ₄
1148	6" HUB	77 ["]	13 ¹ / ₂	6	17 ¹ / ₄	6 ¹ / ₄	4 ³ / ₄	10 ¹ / ₄



MADE IN FOUR SIZES-3", 4", 5" & 6"
HUB OR TAPPED

No. 1148

BOOSEY

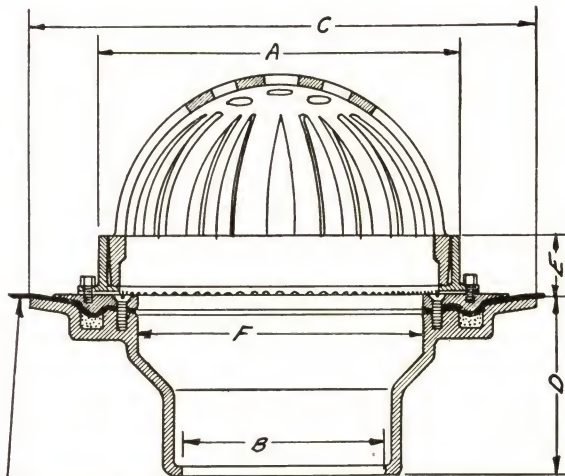
CAST IRON DECK DRAINS

NO. 1149 DECK DRAIN. DESIGNED FOR TILE, SLATE OR ASPHALT ROOFING AND FURNISHED WITH EITHER ROUND, BEEHIVE OR SQUARE STRAINERS. CAST IRON, PAINTED OR GALVANIZED, OR ALL BRONZE. SEEPAGE PAN CAST TO DRAIN BODY ALSO ACTS AS AN ANCHOR, SECURING DRAIN PERMANENTLY IN CONCRETE SLAB.

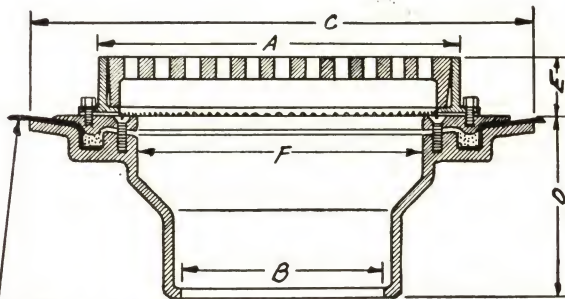
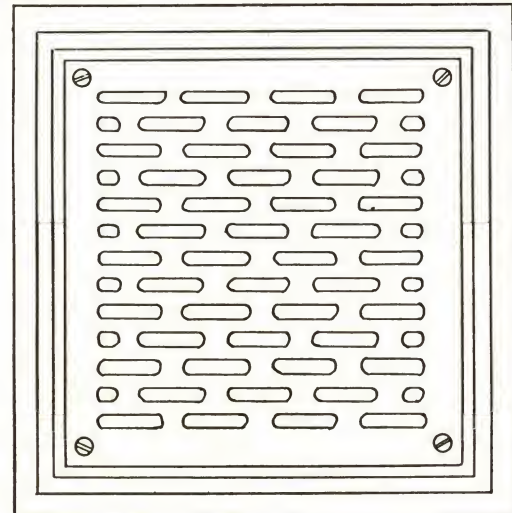
ADDITIONAL WATER-PROOFING AROUND DRAIN OF EITHER METAL OR FELT CAN BE USED BY FLANGING OR CAULKING INTERMEDIATE WATER-PROOFING TO DRAIN BODY.

DIAMETER OF ROUND OR BEEHIVE STRAINERS 7", 9" AND 12". SQUARE STRAINERS 9", 12" AND 15".

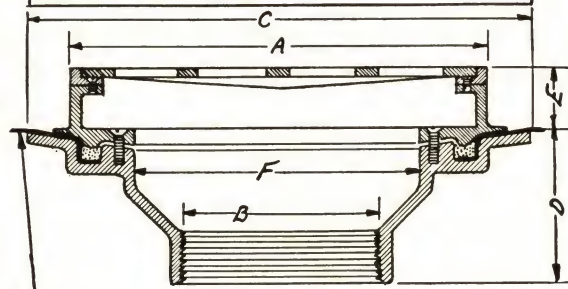
NO.	GRATE AREA	A	B	C	D-HUB	D-TAP	E	F
1149-CI	9 SQ. IN.	7	3	13	6	5	2	6 3/8
1149-CI	9 " "	7	4	13	6	5	2	6 3/8
1149-CI	12 " "	9	3	13	6	5	2	6 3/8
1149-CI	12 " "	9	4	13	6	5	2	6 3/8
1149-CI	20 " "	12	4	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-CI	20 " "	12	5	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-CI	20 " "	12	6	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-H	18 " "	7	3	13	6	5	2	6 3/8
1149-H	18 " "	7	4	13	6	5	2	6 3/8
1149-H	30 " "	9	3	13	6	5	2	6 3/8
1149-H	30 " "	9	4	13	6	5	2	6 3/8
1149-H	70 " "	12	4	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-H	70 " "	12	5	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-H	70 " "	12	6	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-S	15 1/2 " "	9	3	13	6	5	2	6 3/8
1149-S	15 1/2 " "	9	4	13	6	5	2	6 3/8
1149-S	60 " "	12	3	13	6	5	2	6 3/8
1149-S	60 " "	12	4	13	6	5	2	6 3/8
1149-S	78 1/2 " "	15	4	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-S	78 1/2 " "	15	5	17 1/4	6 1/4	5 1/4	2	10 1/4
1149-S	78 1/2 " "	15	6	17 1/4	6 1/4	5 1/4	2	10 1/4



WATER PROOFING NO. 1149-H



METAL FLASHING NO. 1149-CI



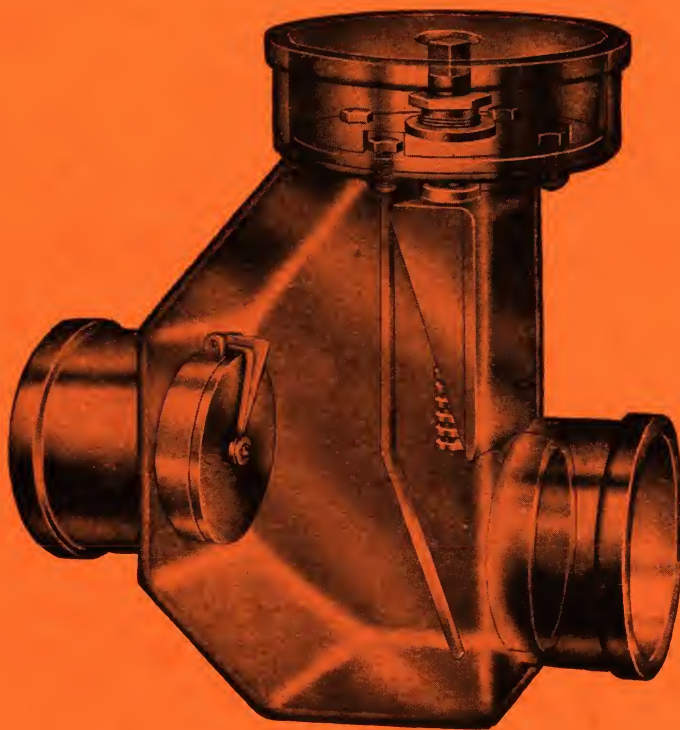
METAL FLASHING NO. 1149-S

3, 4, 5, OR 6 INCH OUTLET - HUB OR TAPPED

ARCHITECTS AND ENGINEERS CATALOG

Nº 32

DRAINAGE SPECIALTIES



NORMAN BOOSEY MANUFACTURING CO.

5140 HAMILTON AVENUE

DETROIT, MICHIGAN
